SHEET NOTES

1. REFER TO SHEET CS-502 FOR CIVIL AND SURVEY LEGENDS AND GENERAL NOTES.
2. TOP OF CURB (TC), TOP OF WALK (TW), AND TOP OF LOADING DOCK (DOCK) GRADES ARE 6" ABOVE TOP OF PAVEMENT (TP), UNLESS OTHERWISE NOTED ON PLAN.
3. PROVIDE SMOOTH, UNIFORM GRADING TRANSITION BETWEEN EXISTING SURFACES AND NEW CONSTRUCTION AND IN ALL AREAS TO RECEIVE LANDSCAPING. NEW CONTOURS ARE SHOWN TO APPROXIMATE GRADES. MAXIMUM SLOPE IS 4V:1H EXCEPT IN NEW FLOW-THROUGH BASIN WHERE 3V:1H MAXIMUM SLOPES ARE ALLOWED.
4. REFER TO GEOTECHNICAL REPORT AND SPECIFICATIONS FOR EARTHWORK REQUIREMENTS.

CONSTRUCTION NOTES

1. WHERE TC TRANSITIONS TO FLUSH WITH TP AND/OR TW, TRANSITION SHALL BE MADE OVER 1-FOOT HORIZONTAL DISTANCE.
2. CUT EXISTING SURFACE TO ESTABLISH A PERMANENT CUT SLOPE OF 2:1 MAXIMUM PER REQUIREMENTS OF THE GEOTECHNICAL REPORT.
3. REFER TO STRUCTURAL SHEET SF-041 FOR CMU WALL ELEVATIONS.
4. MATCH EX GRADES AT SAWCUT LINE.

N

PLAN SCALE
0 20' 40'
SCALE: 1"= 20'

FFE= 471.00

1 COURTYARD GRADING PLAN
SCALE: 1"= 10'

N

PLAN SCALE
0 1'
SCALE: 1"= 10'

Revisions:	Date

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JAN. 10, 2005
TINA L. GUARD
EXPIRES 6/30/13

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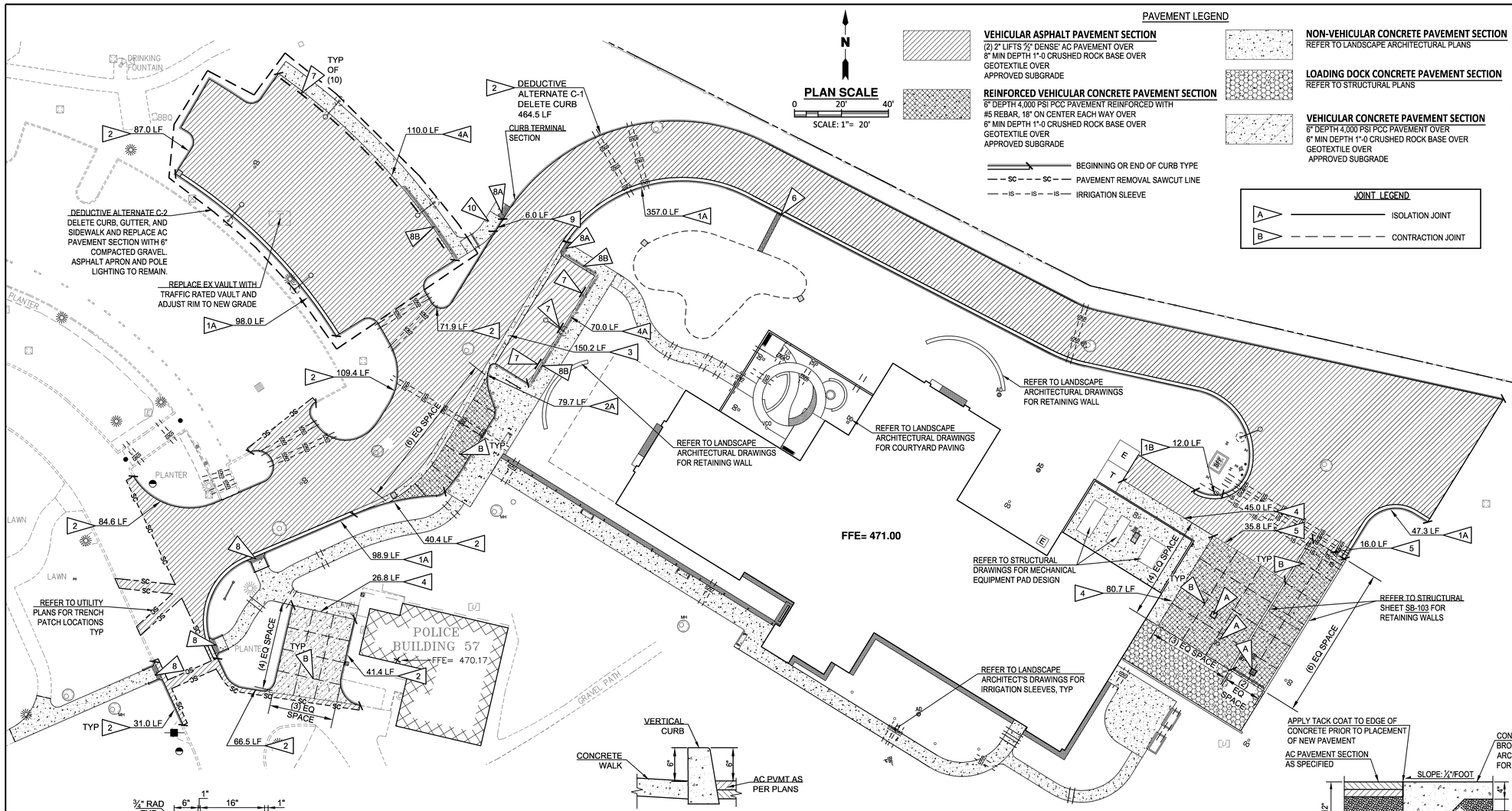
Drawing Title	GRADING PLAN
Approved: Project Director	
Project Title	SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD
Location	ROSEBURG, OREGON
Date	30 APR 2012
Checked	TLG
Drawn	JAH/CB
VA Project Number	653-322
Building Number	086
Sheet Number	CG-101

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231



PAVEMENT LEGEND

VEHICULAR ASPHALT PAVEMENT SECTION
(2) 2" LIFTS ½" DENSE' AC PAVEMENT OVER
8" MIN DEPTH 1"-0 CRUSHED ROCK BASE OVER
GEOTEXTILE OVER
APPROVED SUBGRADE

REINFORCED VEHICULAR CONCRETE PAVEMENT SECTION
6" DEPTH 4,000 PSI PCC PAVEMENT REINFORCED WITH
#5 REBAR, 18" ON CENTER EACH WAY OVER
6" MIN DEPTH 1"-0 CRUSHED ROCK BASE OVER
GEOTEXTILE OVER
APPROVED SUBGRADE

NON-VEHICULAR CONCRETE PAVEMENT SECTION
REFER TO LANDSCAPE ARCHITECTURAL PLANS

LOADING DOCK CONCRETE PAVEMENT SECTION
REFER TO STRUCTURAL PLANS

VEHICULAR CONCRETE PAVEMENT SECTION
6" DEPTH 4,000 PSI PCC PAVEMENT OVER
6" MIN DEPTH 1"-0 CRUSHED ROCK BASE OVER
GEOTEXTILE OVER
APPROVED SUBGRADE

BEGINNING OR END OF CURB TYPE
SC PAVEMENT REMOVAL SAWCUT LINE
IS IRRIGATION SLEEVE

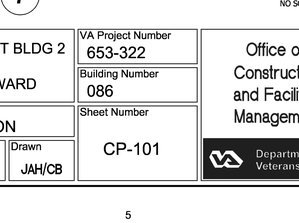
JOINT LEGEND
A ISOLATION JOINT
B CONTRACTION JOINT

SHEET NOTES

1. REFER TO SHEET CS-502 FOR CIVIL AND SURVEY LEGENDS AND GENERAL NOTES.
2. REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR PEDESTRIAN CONCRETE PAVING. JOINTING NOT ADDRESSED ON THE PLAN.
3. REFER TO GEOTECHNICAL REPORT AND SPECIFICATIONS FOR EARTHWORK REQUIREMENTS

CONSTRUCTION NOTES

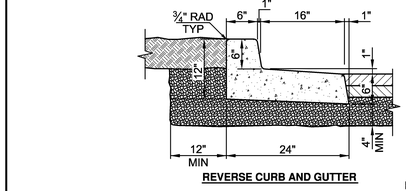
1A. CONSTRUCT CURB AND GUTTER PER DETAIL 1/CP-101.
1B. CONSTRUCT REVERSE CURB AND GUTTER PER DETAIL 1/CP-101.
2. CONSTRUCT FULL DEPTH VERTICAL CURB WITH 6" REVEAL PER DETAIL 2/CP-101.
2A. CONSTRUCT FULL DEPTH DROP CURB PER DETAIL 2/CP-101
3. CONSTRUCT VALLEY GUTTER PER DETAIL 3/CP-101.
4. CONSTRUCT THICKENED EDGE SIDEWALK WITH 6" CURB REVEAL PER DETAIL 4/CP-101.
4A. CONSTRUCT THICKENED EDGE FLUSH PAVEMENT/SIDEWALK PER DETAIL 4/CP-101.
5. CONSTRUCT PAVEMENT TRANSITION SECTION AT INTERFACE BETWEEN ASPHALT AND CONCRETE PAVEMENTS PER DETAIL 5/CP-101.
6. CONSTRUCT CURB CUT AND FLOW SPREADER PER DETAIL 6/CP-101.
7. PROVIDE AND INSTALL CONCRETE WHEEL STOP PER SPECIFICATIONS AND DETAIL 7/CP-101.
8. CONSTRUCT STD SIDEWALK ACCESS RAMP PER DETAIL 6/CS-505.
8A. INSTALL TRUNCATED DOME DETECTABLE WARNING STRIP 2' x RAMP WIDTH.
8B. CONSTRUCT TACTILE GROOVES PER DETAIL 7/CS-505.
9. CONSTRUCT FULL DEPTH "EXPOSED" CURB PER DETAIL 2/CP-101.
10. CONSTRUCT ADA CURB RAMP GRADE TRANSITION. REFER TO SHEET CG-101 FOR GRADING REQUIREMENTS.



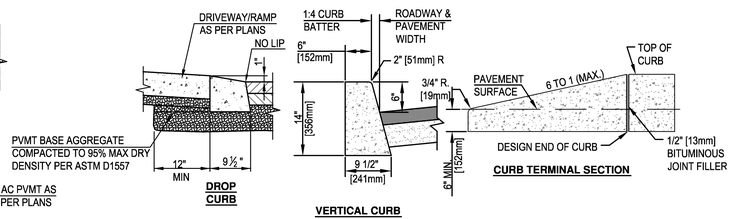
5 PAVEMENT TRANSITION
NO SCALE

6 CURB CUT AND FLOW SPREADER
NO SCALE

EXPOSED CURB



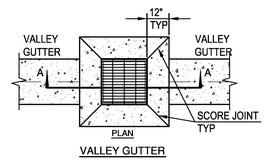
REVERSE CURB AND GUTTER



DROP CURB

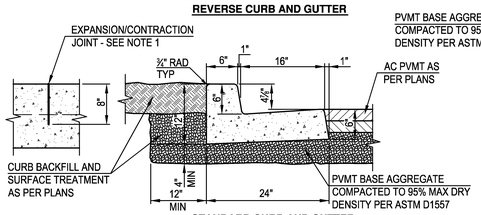
VERTICAL CURB

CURB TERMINAL SECTION



VALLEY GUTTER

NOTES
1. COLLAR THICKNESS: VALLEY GUTTER - 7"



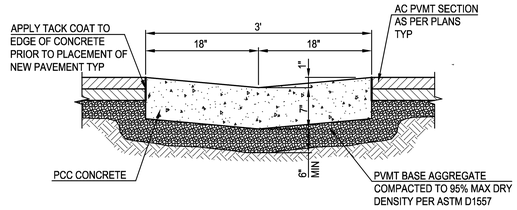
STANDARD CURB AND GUTTER

NOTES
1. EXPANSION JOINTS IN NON-EXTRUDED CURB/GUTTER. CONTRACTION JOINTS IN EXTRUDED CURB/GUTTER.
2. EXPANSION JOINTS SHALL BE PLACED EVERY 30' IN NON-EXTRUDED CURB AND GUTTER.
3. REFER TO FULL DEPTH CURB, DETAIL 2/CP-101, FOR ADDITIONAL FINISHING REQUIREMENTS.

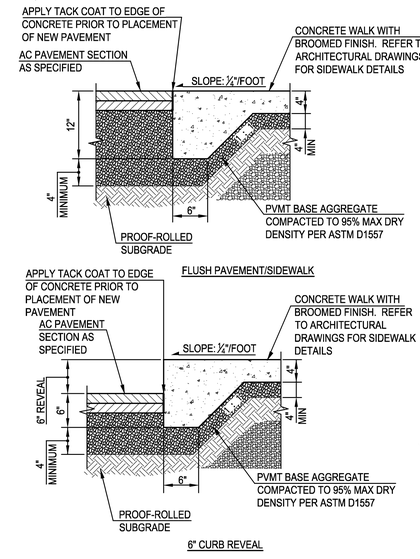
NOTES:
1. ALL CONCRETE CURBS AND TRANSITIONS, SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI.
2. MAXIMUM SPACING ON SCORED JOINTS SHALL BE 15' [4572mm].
3. 1/2" [13mm] THICK EXPANSION JOINTS SHALL BE LOCATED AT TANGENT POINTS IN CURB RETURNS, TRANSITIONS, AND AT A MAXIMUM OF 30' [1828.8cm] INTERVALS. EXPANSION MATERIAL SHALL ALSO BE PLACED BETWEEN CURBS AND ADJACENT STRUCTURES, SIDEWALKS, DRIVEWAYS AND CURB ACCESS RAMPS. THE 1/2" [13mm] JOINT FILLER SHALL EXTEND THE FULL DEPTH OF THE CONCRETE.
4. CONCRETE SHALL BE FINISHED WITH A STEEL TROWEL FOLLOWED BY BRUSHING WITH A FINE BRUSH ALONG THE LENGTH OF THE CURB OR CURB AND GUTTER.
5. SINGLE CURB MAY BE CONSTRUCTED BY THE USE OF FORMS OR MAY BE SLIP FORMED.
6. ALL EXPOSED EDGES AND HAND TOOLED JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" [6mm] RADIUS UNLESS A LARGER RADIUS IS INDICATED BY THE APPLICABLE STANDARD DETAIL OR PROJECT PLANS.

1 CURB AND GUTTER
NO SCALE

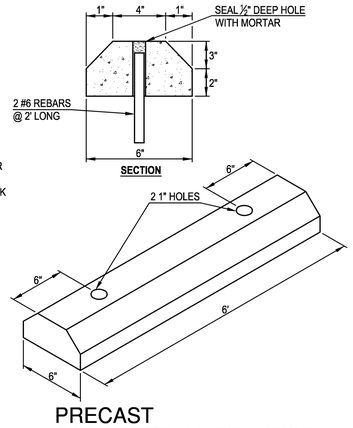
2 FULL DEPTH CURB
NO SCALE



3 VALLEY GUTTER
NO SCALE



4 THICKENED EDGE SIDEWALK
NO SCALE



7 PRECAST CONCRETE WHEEL STOP
NO SCALE

Revisions:	Date

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REGISTERED PROFESSIONAL ENGINEER 65618PE DIGITAL SIGNATURE OREGON JAN. 10, 1995 TINA L GUARD
EXPIRES 6/30/13

ARCHITECT/ENGINEERS:

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Drawing Title: PAVING PLAN	Project Title: SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD	VA Project Number: 653-322	Office of Construction and Facilities Management
Approved: Project Director	Location: ROSEBURG, OREGON	Building Number: 086	Department of Veterans Affairs
	Date: 30 APR 2012 / Checked: TLG / Drawn: JAH/CB	Sheet Number: CP-101	

VA FORM 08-6231

EROSION SEDIMENT CONTROL LEGEND

— 470 —	EXISTING CONTOUR ELEVATION - MAJOR
- - 473 - -	EXISTING CONTOUR ELEVATION - MINOR
— LMT —	APPROXIMATE LIMITS OF CONSTRUCTION
— BB —	CONTINUOUS BIO BERM
— SF —	SEDIMENT FENCING
△	EXISTING INLET TO BE PROTECTED
⊠△	EXISTING INLET TO BE PROTECTED UNTIL REMOVAL
◇	NEW INLET TO BE INSTALLED AND PROTECTED
▦	STABILIZED CONSTRUCTION ENTRANCE
⊡	CONCRETE TRUCK WASH AREA WITH DESIGNATION SIGN
↶ ⇐	CONSTRUCTION TRAFFIC ACCESS ROUTING
ESC	EROSION SEDIMENT CONTROL

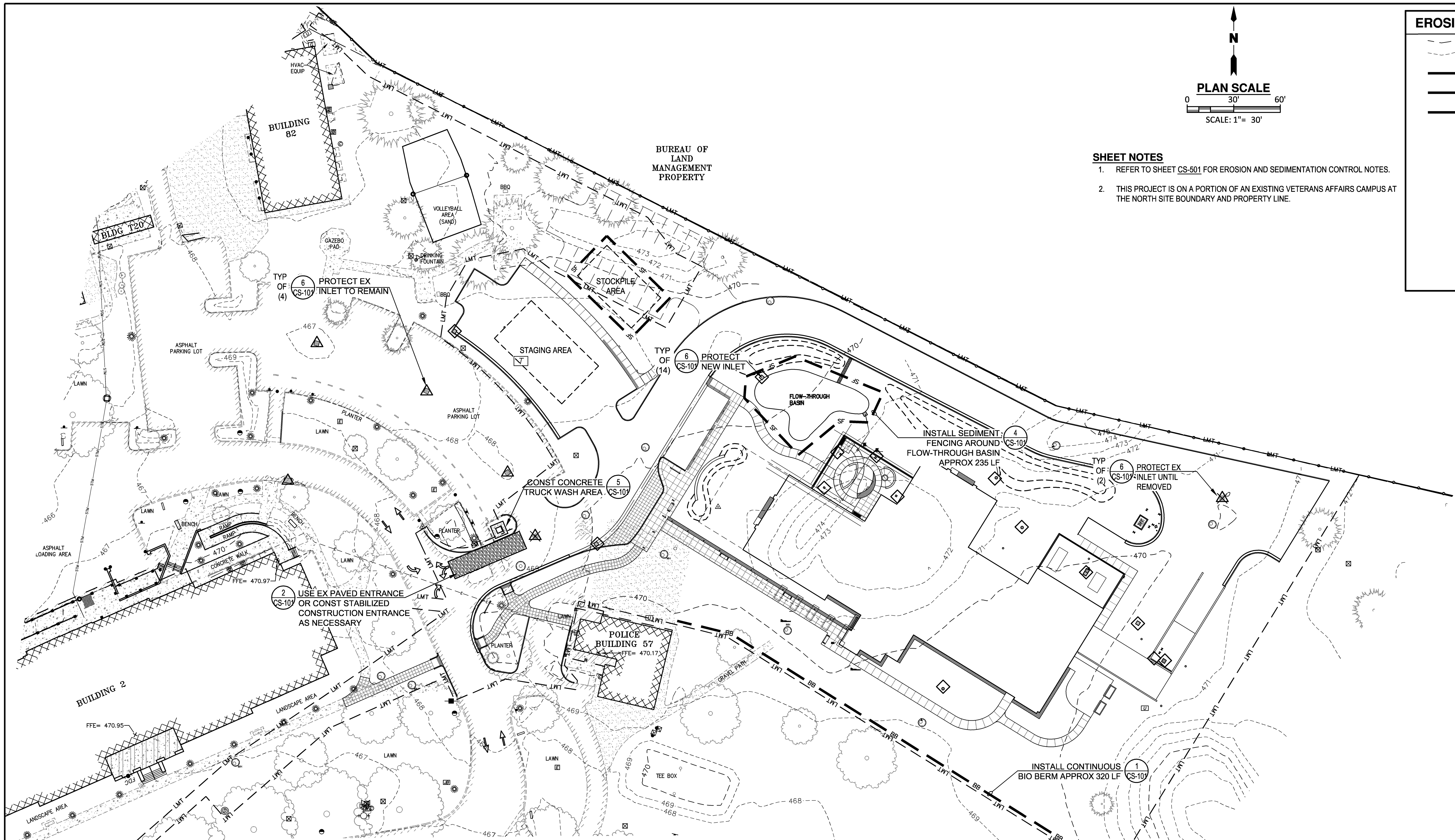
PLAN SCALE

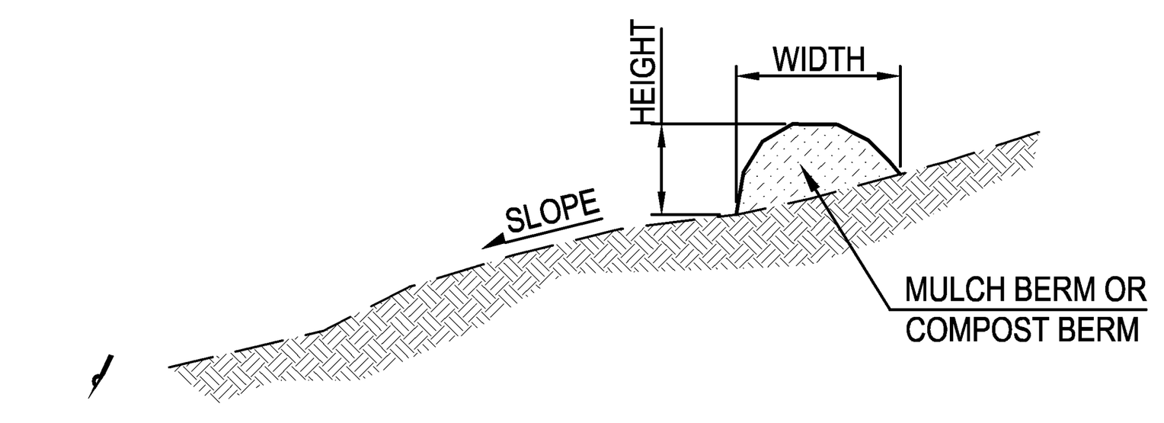
0 30' 60'

SCALE: 1"= 30'

SHEET NOTES

1. REFER TO SHEET CS-501 FOR EROSION AND SEDIMENTATION CONTROL NOTES.
2. THIS PROJECT IS ON A PORTION OF AN EXISTING VETERANS AFFAIRS CAMPUS AT THE NORTH SITE BOUNDARY AND PROPERTY LINE.



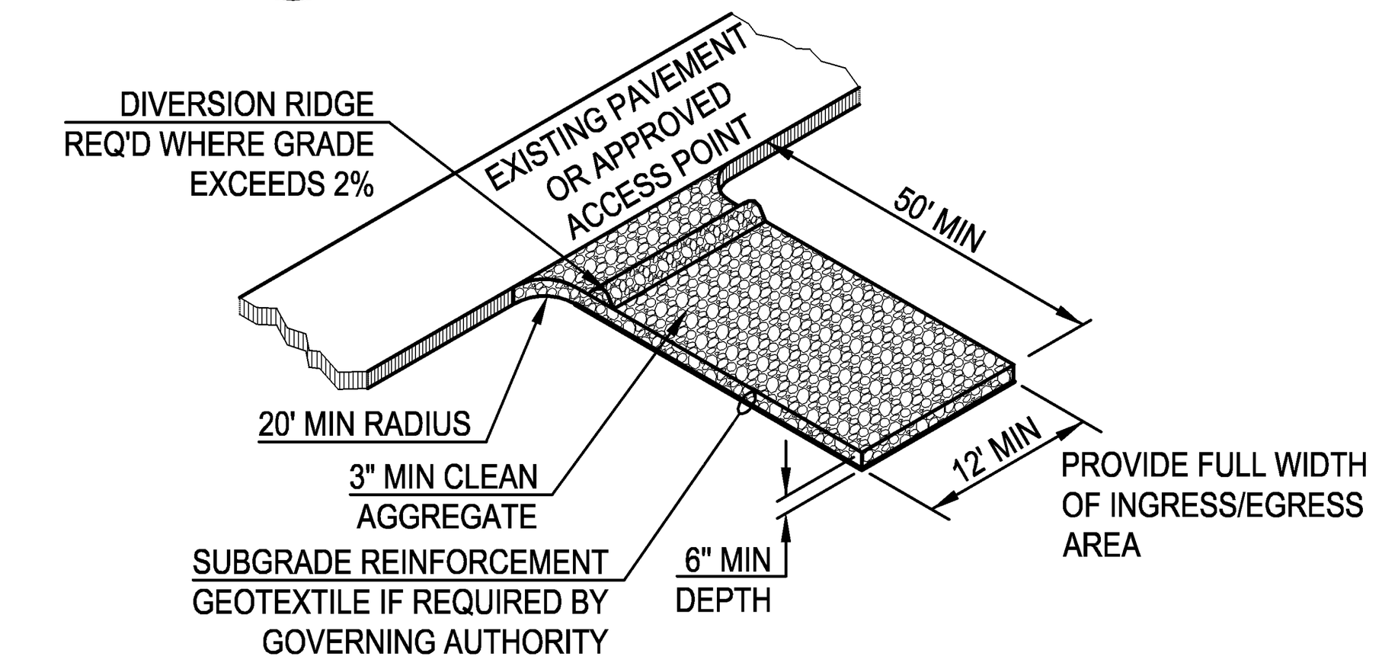


NOTES

1. BERM SIZE:
   SLOPES LESS THAN 5% - 24"-36" WIDE BY 12"-18" HIGH
   SLOPES GREATER THAN 5% - 36"-48" WIDE BY 18"-24" HIGH
2. COMPOST MULCH SHALL BE MEDIUM-GRADE, MIXED YARD DEBRIS.
3. BARK MULCH SHALL BE STANDARD COMMERCIAL PRODUCT, MEDIUM-COURSE GROUND BARK. BARK SHALL BE GROUND FIR BARK, FREE FROM WEEDS AND SEED.

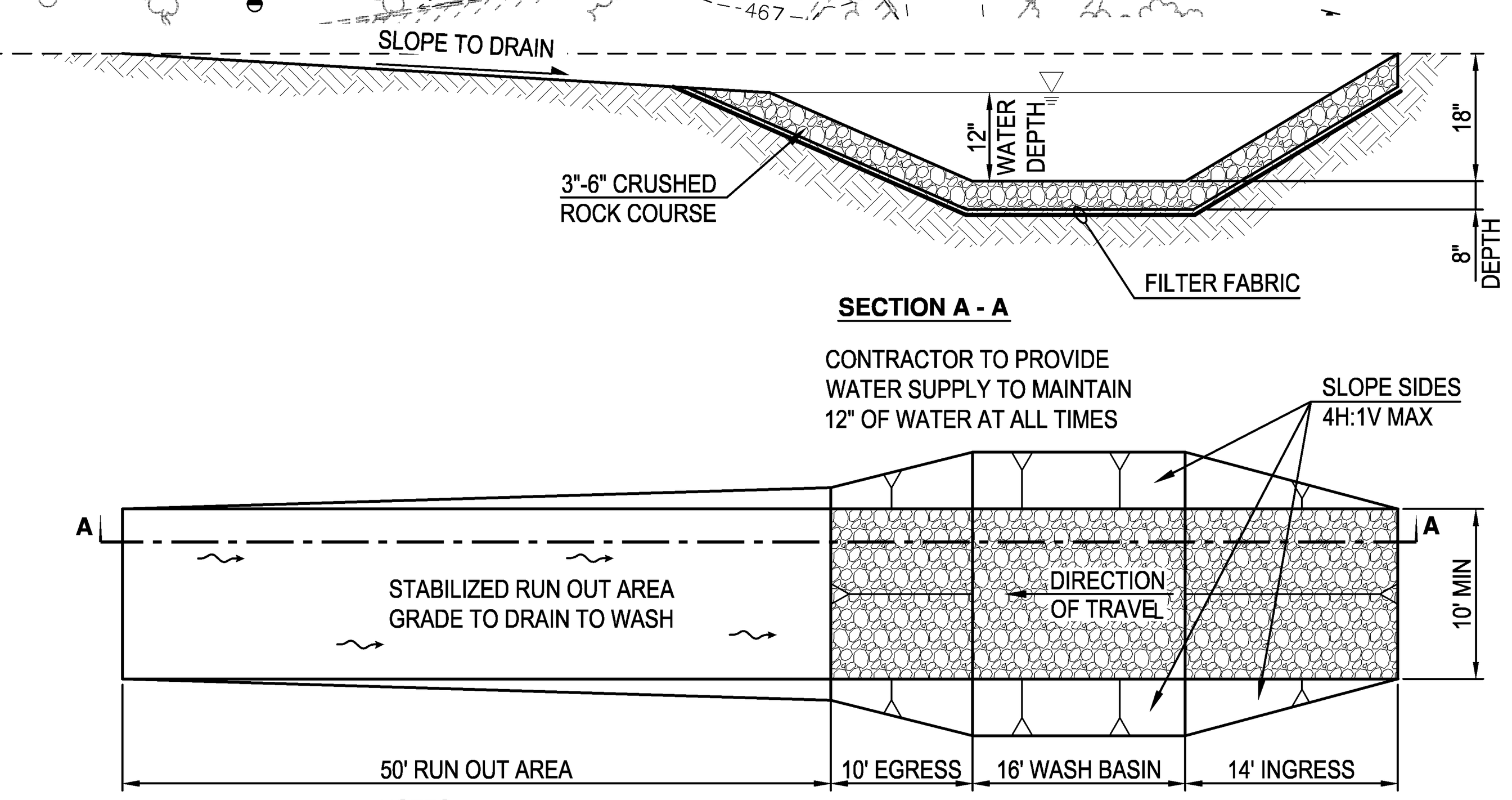
1 CONTINUOUS BARK/MULCH BIO BERM

No Scale



2 STABILIZED CONSTRUCTION ENTRANCE

No Scale

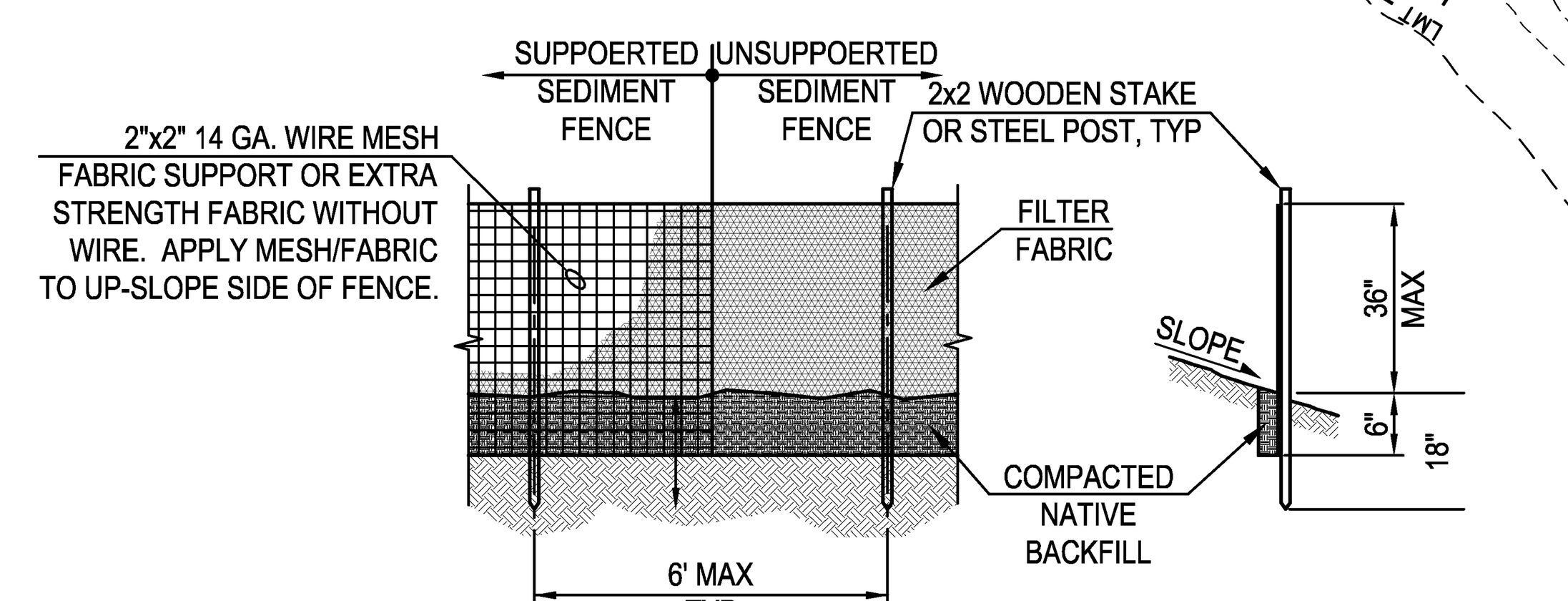


NOTES

1. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR BASIN.
2. CONTRACTOR TO REMOVE ACCUMULATED SEDIMENT FROM BOTTOM OF BASIN AND TO ENSURE WASH WATER COLLECTION AND TREATMENT IS FUNCTIONING.

3 TRUCK WHEEL WASH

No Scale

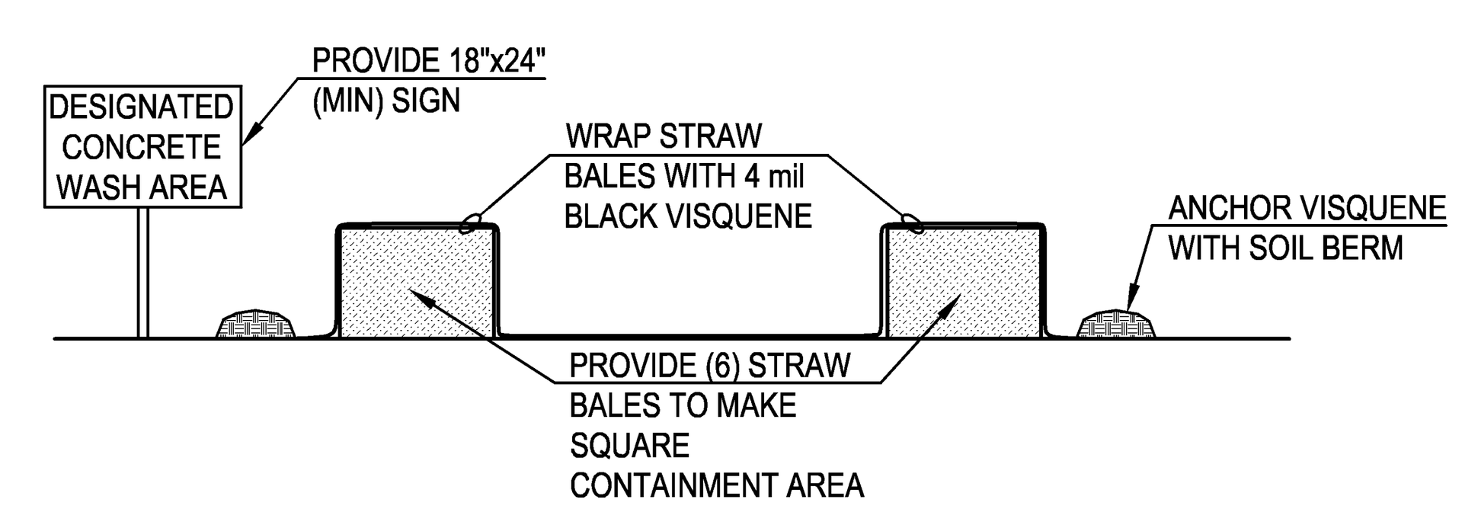


NOTES

1. MAX GROUND SLOPE (PERPENDICULAR TO FENCE):
   SUPPORTED FENCE - 1H:1V
   UNSUPPORTED FENCE - 4H:1V
2. SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0°F TO 120°F.
3. FILTER FABRIC SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POSTS WITH A MINIMUM OF 6 INCH OVERLAP AND BOTH ENDS SECURED TO POST.
4. CONTINUOUS BIO BERM MAY BE INSTALLED AT UPHILL BASE OF FILTER FABRIC IN LIEU OF BURYING BOTTOM OF FABRIC.
5. USE STAPLES OR WIRE RINGS TO ATTACH FILTER FABRIC TO WIRE SUPPORT FABRIC.

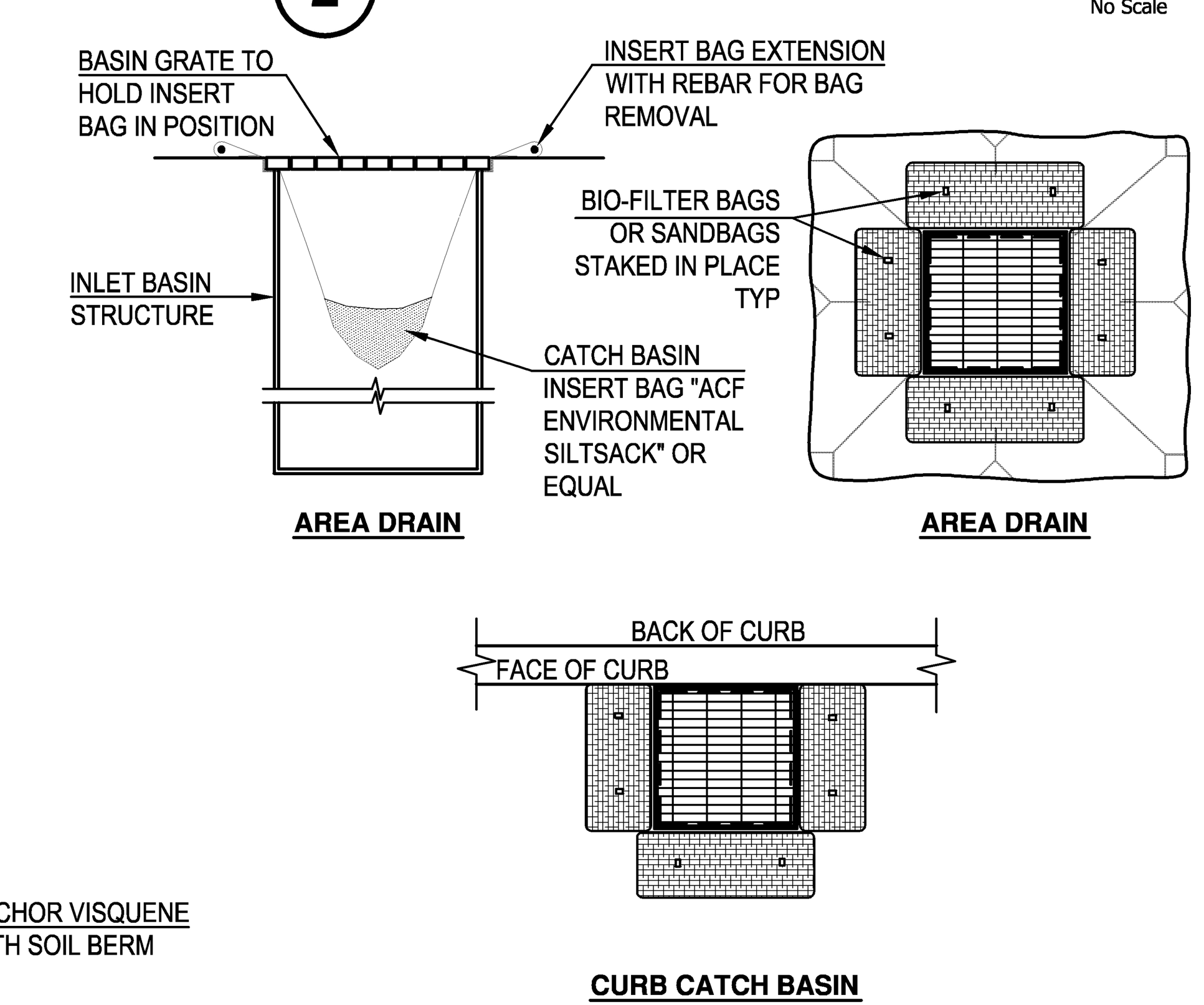
4 SEDIMENT FENCE

No Scale



5 CONCRETE TRUCK WASH AREA

NO SCALE



NOTES

1. PRIOR TO 1st PAVEMENT LIFT, REMOVE BIO-BAG/SANDBAG BARRIERS AND INSTALL BASIN INSERT BAG OR INLET SEDIMENT DAM AT ALL INLET STRUCTURES.

6 DRAINAGE INLET STRUCTURE PROTECTION

No Scale

Revisions:	Date

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REGISTERED PROFESSIONAL ENGINEER 65619PE DIGITAL SIGNATURE OREGON JAN. 10, 2008 TINA L. GUARD EXPIRES 6/30/13

ARCHITECT/ENGINEERS:

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Drawing Title	EROSION AND SEDIMENT CONTROL PLAN AND DETAILS
Approved: Project Director	
Project Title	SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD
Location	ROSEBURG, OREGON
Date	30 APR 2012
Checked	TLG
Drawn	JAH/CB
VA Project Number	653-322
Building Number	086
Sheet Number	CS-101

Office of Construction and Facilities Management

Department of Veterans Affairs

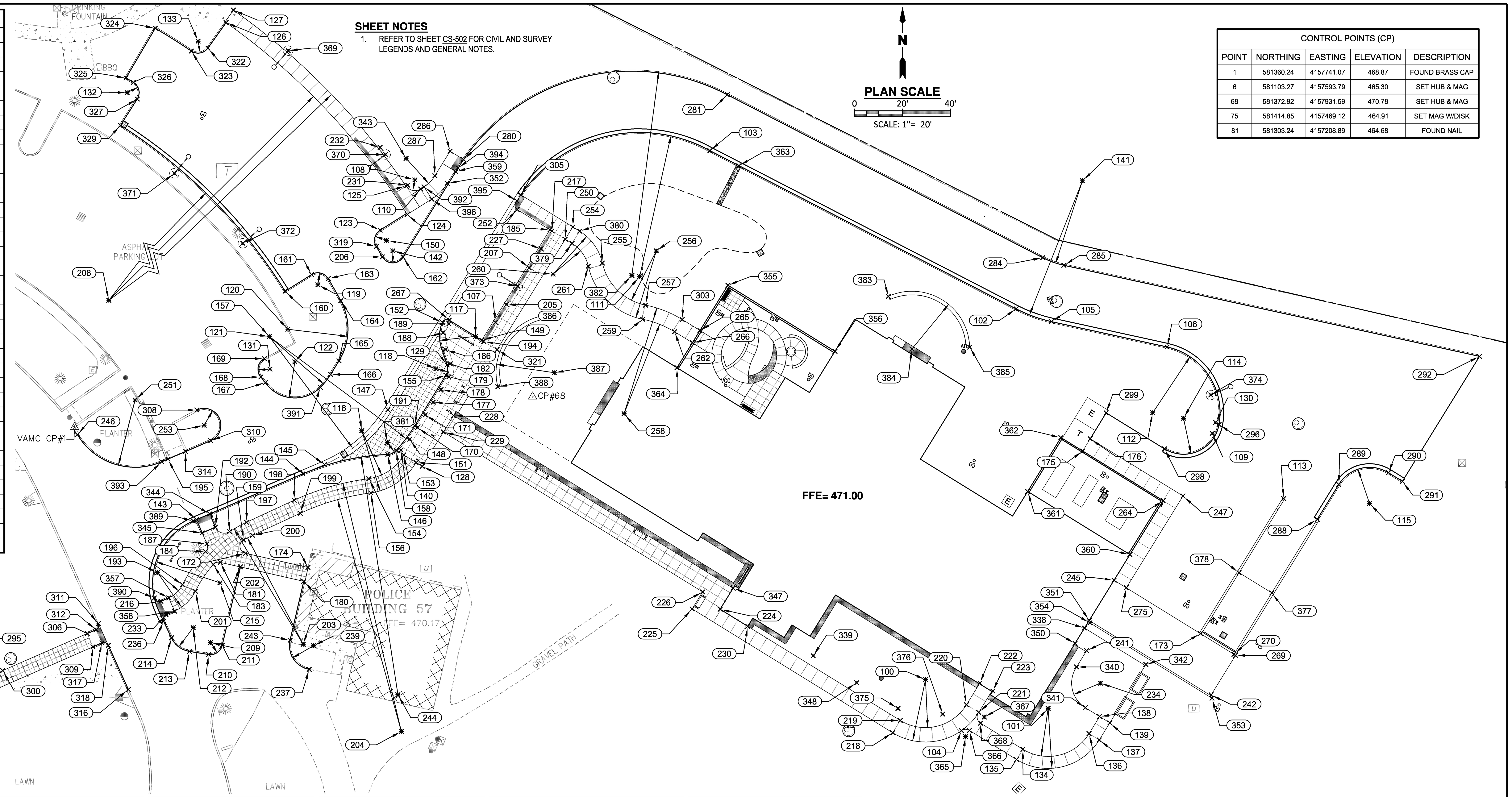
VA FORM 08-6231

HORIZONTAL LAYOUT TABLE

POINT	NORTHING	EASTING	DESCRIPTION
100	581255.25	4158095.01	TW RAD - 20'/25'
101	581243.26	4158146.00	TW RAD - 20'/25'
102	581409.44	4158132.74	TC/PT
103	581475.26	4158005.31	TC/PC
104	581233.99	4158109.97	TW/PC
105	581404.14	4158147.43	TC/PC
106	581393.60	4158195.50	TC/PT
107	581403.84	4157916.18	HC SIGN
108	581463.12	4157882.62	TW RAD - 4.5'
109	581357.67	4158214.25	BOLLARD
110	581459.32	4157885.02	TW/PT
111	581422.85	4157976.10	TC RAD - 60'
112	581366.25	4158189.51	TC RAD - 28'
113	581330.55	4158243.98	WALL
114	581363.97	4158202.31	TC RAD - 15'
115	581328.55	4158279.67	TC RAD - 15'
116	581358.79	4157860.55	TW RAD - 20'/26'
117	581397.99	4157907.86	TC RAD - 15'
118	581384.52	4157891.32	TC RAD - 5'
119	581419.47	4157842.28	TC RAD - 5'
120	581400.98	4157829.79	TC RAD - 25'
121	581397.95	4157822.05	TC RAD - 30'/71'
122	581387.37	4157832.68	TC RAD - 15'
123	581442.20	4157868.17	TC/PT
124	581448.73	4157879.48	TW
125	581460.60	4157878.89	TW/PC
126	581528.56	4157804.10	TW
127	581533.74	4157807.17	TW
128	581343.96	4157885.67	TW
129	581386.13	4157896.05	TC/PC
130	581362.23	4158215.70	BOLLARD
131	581384.40	4157822.36	TC RAD - 5'
132	581499.42	4157762.94	TC RAD - 5'
133	581520.82	4157792.46	TC RAD - 5'
134	581226.24	4158135.49	TW/PC
135	581221.99	4158132.87	TW/PC
136	581232.75	4158163.02	TW/PT
137	581230.12	4158167.27	TW/PT
138	581239.88	4158167.42	TW
139	581237.25	4158171.67	TW
140	581350.69	4157876.83	BOLLARD
141	581462.75	4158160.27	TC RAD - 36'/60'
142	581433.58	4157873.43	TC RAD - 5'
143	581321.75	4157791.79	TC
144	581340.82	4157836.02	TC/PT
145	581344.68	4157844.98	VG/PT
146	581348.88	4157871.34	TC/PRC
147	581367.48	4157871.40	VG/PC
148	581355.24	4157880.46	BOLLARD
149	581396.41	4157910.42	TC
150	581437.97	4157870.83	TC RAD - 5'
151	581345.53	4157883.12	TW
152	581403.81	4157894.04	TC/PT
153	581348.69	4157878.01	TW
154	581338.83	4157863.48	TW/PRC
155	581381.89	4157895.58	TC/PT
156	581332.89	4157864.33	TW/PRC
157	581397.95	4157822.05	VG RAD - 58'
158	581350.53	4157874.85	TC/PCC
159	581313.31	4157811.37	TW/PCC
160	581416.83	4157828.66	TC
161	581423.71	4157839.62	TC/PC
162	581430.96	4157877.68	TC/PC
163	581422.04	4157846.57	TC/PT
164	581412.86	4157851.79	TC/PC
165	581387.85	4157851.07	TC/PT
166	581382.19	4157847.57	TC/PC
167	581378.79	4157820.38	TC/PT
168	581381.16	4157818.55	TC/PC
169	581388.80	4157819.98	TC/PT/ME
170	581360.06	4157883.71	BOLLARD
171	581365.34	4157886.97	BOLLARD
172	581307.77	4157812.19	TW/PT
173	581274.38	4158209.32	WALL
174	581301.88	4157838.17	TW/ME
175	581350.33	4158160.36	TW
176	581355.43	4158163.51	TW
177	581370.62	4157890.23	BOLLARD
178	581375.89	4157893.49	BOLLARD
179	581381.17	4157896.75	BOLLARD

HORIZONTAL LAYOUT TABLE

POINT	NORTHING	EASTING	DESCRIPTION
180	581296.13	4157836.40	TW/ME
181	581304.01	4157801.68	TW
182	581386.57	4157897.36	BOLLARD
183	581303.08	4157798.77	TW
184	581308.44	4157795.55	TW/PRC
185	581442.36	4157938.79	TW
186	581392.45	4157895.36	BOLLARD
187	581311.69	4157796.13	TW/PC
188	581399.55	4157894.33	BOLLARD
189	581403.24	4157896.74	BOLLARD
190	581316.78	4157805.56	TW/PRC
191	581360.79	4157882.54	TC/PC
192	581318.64	4157799.66	TC
193	581299.76	4157775.64	TW RAD - 11.5'/17.5'
194	581395.89	4157911.27	BOLLARD
195	581346.96	4157779.91	TC
196	581294.67	4157785.95	TW/PT
197	581320.69	4157812.62	TW/PC
198	581329.87	4157832.41	TW/PT
199	581324.42	4157834.93	TW/PT
200	581315.25	4157815.14	TW/PC
201	581292.02	4157791.33	TW/PC
202	581302.10	4157810.07	TW
203	581269.89	4157836.17	TW RAD - 50'/56'
204	581233.69	4157876.98	TW RAD - 100'/106'
205	581411.21	4157920.72	BOLLARD
206	581431.08	4157869.10	TC/PT
207	581426.52	4157930.18	BOLLARD
208	581299.10	4157641.04	TC RAD - 221.5'/281.5'/287'
209	581270.62	4157797.63	TC RAD - 5'
210	581265.68	4157796.84	TC/PC
211	581269.49	4157802.50	TC/PT
212	581276.83	4157790.42	TC RAD - 10'
213	581266.96	4157788.84	TC/PT
214	581272.57	4157781.37	TC/PC



SHEET NOTES

1. REFER TO SHEET CS-502 FOR CIVIL AND SURVEY LEGENDS AND GENERAL NOTES.

CONTROL POINTS (CP)

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	581360.24	4157741.07	468.87	FOUND BRASS CAP
6	581103.27	4157593.79	465.30	SET HUB & MAG
68	581372.92	4157931.59	470.78	SET HUB & MAG
75	581414.85	4157469.12	464.91	SET MAG W/DISK
81	581303.24	4157208.89	464.68	FOUND NAIL

HORIZONTAL LAYOUT TABLE

POINT	NORTHING	EASTING	DESCRIPTION
215	581295.49	4157801.53	TC RAD - 28'
216	581287.80	4157777.00	TC/PT
217	581441.84	4157939.64	BOLLARD
218	581233.13	4158081.35	TW/PC
219	581238.24	4158084.50	TW/PC
220	581244.75	4158112.03	TW/PT
221	581241.59	4158117.13	TW/PT
222	581253.79	4158117.61	TW
223	581250.47	4158122.98	TW
224	581284.49	4158009.58	TW
225	581284.63	4157997.94	TW
226	581291.69	4158002.29	TW
227	581434.48	4157935.09	HC SIGN
228	581365.05	4157898.69	TW
229	581358.25	4157894.49	TW
230	581277.40	4158021.07	TW
231	581460.91	4157879.62	HC SIGN
232	581476.63	4157868.16	HC SIGN
233	581282.18	4157779.12	TC/PT
234	581253.77	4158167.77	TW RAD - 12'
236	581279.50	4157778.11	TC/PC
237	581259.50	4157838.66	TC/PT/ME
239	581269.33	4157840.45	TC RAD - 10'
241	581267.29	4158162.01	TW
242	581248.89	4158213.83	TP

HORIZONTAL LAYOUT TABLE

POINT	NORTHING	EASTING	DESCRIPTION
243	581271.60	4157830.71	TC/PC
244	581248.97	4157875.56	TC RAD - 100'
245	581296.56	4158173.41	TW
246	581357.09	4157742.27	TC/PT/ME
247	581331.61	4158202.10	TW
250	581438.42	4157945.17	TW
251	581371.55	4157766.24	TC RAD - 28'
252	581450.76	4157925.18	TW/PC
253	581361.06	4157794.95	TC RAD - 7'
254	581443.53	4157948.32	TW
255	581428.52	4157960.60	TW/PRC
256	581433.57	4157983.04	TW RAD - 23'/29'
257	581411.01	4157978.57	TW/PRC
258	581365.89	4157969.62	TW RAD - 40'/46'
259	581405.12	4157977.40	TW/PRC
260	581423.91	4157940.11	TW RAD - 15'/21'
261	581427.21	4157954.75	TW/PRC
262	581399.92	4157990.64	TW/PT
264	581329.65	4158193.84	WALL
265	581400.46	4158001.19	TW
266	581395.35	4157998.04	TW
267	581404.74	4157896.93	TC/PC
269	581265.33	4158223.98	WALL
270	581265.77	4158223.27	WALL
275	581293.40	4158178.51	TW

HORIZONTAL LAYOUT TABLE

POINT	NORTHING	EASTING	DESCRIPTION
280	581471.58	4157902.89	TC/PT
281	581498.53	4158012.55	TC/PC
284	581430.76	4158143.75	TC/PT
285	581427.58	4158152.57	TC/PC
286	581475.05	4157897.27	TC
287	581464.84	4157890.96	TC
288	581321.93	4158257.95	TC/WALL
289	581336.43	4158266.90	TC/PC
290	581341.31	4158287.55	TC/PT
291	581337.73	4158293.34	TC
292	581389.70	4158325.42	TC
293	581268.59	4157680.78	TW RAD - 21'
294	581263.69	4157701.20	TW/ME
295	581262.42	4157707.06	TW/ME
296	581361.34	4158217.07	TC/PCC
298	581351.21	4158194.43	TC/PC
299	581366.19	4158170.15	TP
300	581258.98	4157711.19	TW
301	581249.49	4157689.52	TW/ME
303	581405.03	4157993.79	TW/PT
304	581244.00	4157691.93	TW/ME
305	581456.88	4157926.69	TC
306	581274.37	4157746.31	TC
308	581367.38	4157791.96	TC/PC/ME
309	581268.87	4157748.72	TC

HORIZONTAL LAYOUT TABLE

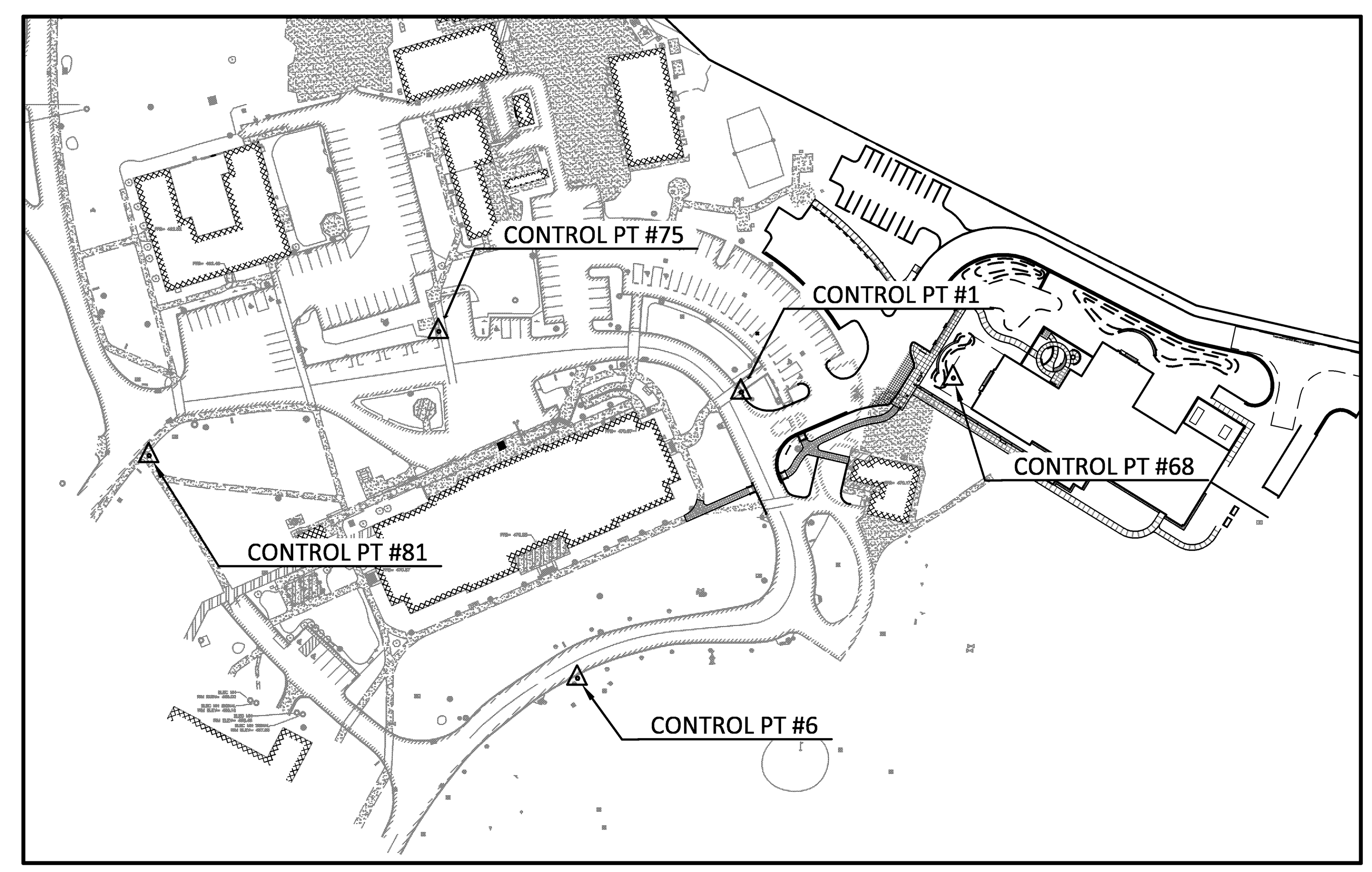
POINT	NORTHING	EASTING	DESCRIPTION
310	581354.63	4157797.72	TC/PT
311	581278.59	4157750.98	TC/PT/ME
312	581275.97	4157749.97	TC/PC
314	581350.12	4157787.24	TC
316	581251.14	4157763.45	TC/ME
317	581270.51	4157752.46	TC/PC
318	581269.49	4157755.12	TC/PT
319	581435.38	4157866.55	TC/PC
321	581392.47	4157916.80	TW
322	581517.93	4157796.54	TC/PC
323	581516.69	4157789.64	TC/PT
324	581526.21	4157774.65	TC
325	581505.52	4157762.48	TC
326	581503.69	4157765.54	TC/PC
327	581496.73	4157767.15	TC/PT
329	581485.82	4157760.19	TC
338	581276.67	4158161.13	TW
339	581265.15	4158048.28	BOLLARD
340	581260.49	4158157.82	TW/PC
341	581243.55	4158161.48	TW/PT
342	581261.52	4158186.66	TW
343	581472.05	4157878.96	TW RAD - 14'
344	581324.15	4157797.29	TC
345	581316.27	4157794.15	TC
347	581293.25	4158014.99	TW

HORIZONTAL LAYOUT TABLE

POINT	NORTHING	EASTING	DESCRIPTION
348	581253.92	4158066.39	BOLLARD
350	581270.27	4158157.18	TW
351	581279.82	4158163.08	TP
352	581461.69	4157896.07	TW/PC
353	581247.50	4158214.15	WALL
354	581278.85	4158163.38	WALL
355	581419.29	4158012.82	WALL
356	581391.80	4158057.34	WALL
357	581289.23	4157780.25	TC
358	581283.73	4157782.66	TC
359	581466.53	4157899.65	TC
360	581307.25	4158180.01	WALL
361	581333.49	4158137.50	WALL
362	581355.90	4158151.33	WALL
363	581468.98	4158017.40	CURB CUT
364	581384.97	4157991.63	WALL
365	581231.53	4158111.69	TW RAD - 3'
366	581234.09	4158113.27	TW/PC
367	581239.66	4158119.46	TW RAD - 3'
368	581237.11	4158117.89	TW/PC
369	581516.86	4157829.94	LIGHT POLE
370	581473.68	4157870.44	LIGHT POLE
371	581465.84	4157782.62	LIGHT POLE
372	581436.74	4157811.06	LIGHT POLE
373	581418.86	4157925.45	LIGHT POLE/HC SIGN

HORIZONTAL LAYOUT TABLE

POINT	NORTHING	EASTING	DESCRIPTION
374	581373.66	4158213.66	LIGHT POLE
375	581243.26	4158083.56	BOLLARD
376	581240.89	4158102.16	BOLLARD
377	581291.29	4158239.03	RAMP GB
378	581299.70	4158225.42	RAMP GB
379	581436.68	4157947.99	TW/PC
380	581441.78	4157951.15	TW/PC
381	581353.88	4157871.13	TC RAD - 5'
382	581423.35	4157972.89	TC RAD - 85'
383	581414.69	4158079.55	WALL
384	581392.76	4158089.33	WALL RAD - 24'
385	581393.53	4158113.37	WALL
386	581406.57	4157935.60	WALL
387	581382.90	4157940.59	WALL RAD - 24'
388	581377.06	4157917.12	WALL
389	581321.21	4157790.46	TC/PT
390	581289.19	4157774.25	TC/PCC
391	581376.80	4157843.32	TC/PCC
392	581460.21	4157886.43	TW/PT
393	581345.84	4157777.32	TC/PC
394	581468.01	4157900.56	TC/PT
395	581454.37	4157925.05	VG/PT
396	581455.13	4157889.63	TW/PT



1 PROJECT CONTROL POINTS
1" = 100'

Revisions: | Date

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653.0322.086.cs102.dwg

REGISTERED PROFESSIONAL ENGINEER 65619PE DIGITAL SIGNATURE OREGON JAN. 10, 2008 TINA L. GUARD EXPIRES 6/30/13

ARCHITECT/ENGINEERS:

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Drawing Title	Project Title	VA Project Number
SITE DIMENSIONING PLAN	SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD	653-322
		Building Number: 086
Approved: Project Director	Location: ROSEBURG, OREGON	Sheet Number: CS-102
	Date: 30 APR 2012 / Checked: TLG / Drawn: JAH/CB	

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

DEVELOPER/OWNER

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NARRATIVE DESCRIPTIONS

EXISTING SITE CONDITIONS
SITE CONSISTS OF 3.0 ACRES OF AN EXISTING GOLF COURSE WITH SLOPES RANGING FROM 2 TO 20 PERCENT. THE EXISTING VEGETATION IS MADE UP OF TREES, SHRUBS, AND VARIOUS GRASSES.

DEVELOPED CONDITIONS
NEW PSYCHIATRIC FACILITY WITH ASSOCIATED BUILDING AND SITE UTILITIES, PARKING AREA, AND LANDSCAPING.

SITE SOIL CLASSIFICATION
(PER NATIONAL RESOURCES CONSERVATION SERVICE (NCRS) SOIL SURVEY OF DOUGLAS COUNTY AREA, OREGON)
188D PENGRA SILT LOAM, 2 TO 20 PERCENT SLOPES, SOMEWHAT POORLY DRAINED.

RECEIVING WATER BODIES
SOUTH UMPQUA RIVER VIA PRIVATE PIPED STORM DRAIN SYSTEM OWNED BY THE DEPARTMENT OF VETERANS AFFAIRS

GENERAL EROSION AND SEDIMENT CONTROL PLAN (ESCP) NOTES

STOCK PILES
1. STOCK PILES OF NATIVE SOILS AND/OR FILL MATERIALS SHALL NOT BE EXPOSED TO THE WEATHER WITHOUT PROVISIONS OF SECONDARY CONTAINMENT AND TREATMENT MEASURES AS OUTLINED BELOW.
2. SECONDARY CONTAINMENT SHALL CONSIST OF INSTALLED BIO BERM AND/OR CONTAINMENT DITCH AT TOE OF SLOPE AROUND STOCKPILE PERIMETER. BERM AND/OR DITCH SHALL BE OF SUFFICIENT SIZE TO CONTAIN STOCKPILED MATERIALS IN PLACE.
3. STOCK PILES ON SITE DURING WET WEATHER SEASON (OCTOBER 1 THROUGH MAY 31) SHALL BE COVERED WITH 6 MIL (MIN. THICKNESS) POLYETHYLENE PLASTIC SHEETING. SHEETING SHALL BE INSTALLED AND MAINTAINED TIGHTLY IN PLACE USING APPROVED ANCHORING SYSTEM ON A 10' (MAX) GRID SPACING IN ALL DIRECTIONS. ALL SEAMS BETWEEN ADJACENT SHEETS SHALL BE LAPPED 12" (MIN) AND TAPED OR WEIGHTED DOWN FULL LENGTH OF SEAM. FOR SEAMS PARALLEL TO THE SLOPE CONTOUR, THE UPHILL SHEET SHALL OVERLAP THE DOWNHILL SHEET. NO RUNOFF SHALL BE ALLOWED TO RUN UNDER THE PLASTIC COVERING.
4. DEMOLITION AND/OR CONSTRUCTION DEBRIS, WASTE AND GARBAGE PILES OR CONSTRUCTION MATERIALS CONTAINING TOXIC CONTAMINANTS SHALL NOT BE PLACED WITHIN 25 FEET OF ANY NATURAL DRAINAGE FEATURE, STORM DRAIN INLET STRUCTURE OR DESIGNATED PROTECTED AREA.
5. LOCATION OF CONSTRUCTION MATERIAL STORAGE AREAS AND DEBRIS, WASTE AND GARBAGE PILE AREAS SHALL BE PROVIDED BY THE CONTRACTOR TO THE DEQ OR VA AT THE TIME OF THE INITIAL ESC CONTROL INSPECTION.

CONCRETE WASH AREA
1. PROVIDE MINIMUM OF ONE CONCRETE TRUCK WASH AREA FOR USE ON CLEANING OF DEPARTING CONCRETE TRUCKS.
2. CONCRETE TRUCK WASH AREAS SHALL BE LOCATED ADJACENT TO ANY CONSTRUCTION ENTRANCE USED BY DEPARTING CONCRETE TRUCKS.
3. CONCRETE TRUCK WASH AREAS SHALL BE CONSTRUCTED OF ONE OF THE FOLLOWING:
   A. STRAW BALE BARRIER WITH PLASTIC LINER.
   B. STACKED SAND BAGS OR BIO-BAGS AS A BARRIER WITH PLASTIC LINER.
   C. PORTABLE CONTAINMENT POND.
4. SUGGESTED LOCATIONS OF CONCRETE TRUCK WASH AREA(S) ARE SHOWN ON THE EROSION SEDIMENTATION CONTROL PLAN, SHEET CS-101.
5. LOCATION OF CONCRETE TRUCK WASH AREA(S) SHALL BE PROVIDED BY THE CONTRACTOR TO THE DEQ OR VA AT THE TIME OF THE INITIAL ESC INSPECTION.

STABILIZED CONSTRUCTION ENTRANCE
1. STABILIZED CONSTRUCTION ENTRANCE(S) SHALL BE ESTABLISHED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO PUBLIC RIGHT-OF-WAY OR OUTSIDE THE CONSTRUCTION SITE.
2. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY, IF NECESSARY, TO MAINTAIN PROPER FUNCTION OF THE PAD.
3. INSTALL VEHICLE BARRIERS AT ANY SITE ENTRANCE NOT USED AS STABILIZED CONSTRUCTION ENTRANCE TO RESTRICT SITE ACCESS.
4. IF ESTABLISHED ENTRANCES DO NOT ADEQUATELY REMOVE DIRT AND MUD FROM VEHICLE WHEELS SUCH THAT MUD AND DIRT TRACKING IS EVIDENT OFF SITE, ADDITIONAL MEASURES MUST BE TAKEN. SUCH MEASURES MAY INCLUDE WHEEL WASHING BEFORE VEHICLES LEAVE THE SITE OR OTHER CONSTRUCTION TECHNIQUES/WORK OPERATION MODIFICATIONS.
5. WHEEL WASHING SHOULD BE DONE ON THE GRAVEL PAD AND WASH WATER SHOULD DRAIN THROUGH A SILT-TRAPPING STRUCTURE PRIOR TO LEAVING THE CONSTRUCTION SITE. REFER TO DETAIL 3/CS-101, TRUCK WHEEL WASH.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN UP ANY SEDIMENT/MUD TRACKED INTO ADJACENT RIGHT-OF-WAY OR OUTSIDE THE CONSTRUCTION SITE.

EXISTING TREE PROTECTION
1. CONTRACTOR SHALL IDENTIFY AND MARK ALL EXISTING TREES TO BE PROTECTED PRIOR TO CONSTRUCTION ACTIVITY.
2. ENCIRCLE TREE WITH SAFETY FENCING AT TREE DRIP LINE.
3. SAFETY FENCING SHALL BE MAINTAINED AND REPAIRED, AS NECESSARY, UNTIL FINAL LANDSCAPING IS INSTALLED.

SLOPE STABILIZATION
1. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.
2. TEMPORARY SLOPE STABILIZATION MEASURES MAY INCLUDE COVERING EXPOSED SOIL WITH PLASTIC SHEETING, INSTALLATION OF STRAW MULCHING AND/OR WOOD CHIPS, OR OTHER APPROVED MEASURES.
3. LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED SEED MIX AND APPLICATION RATE.

GENERAL NOTES
1. THE FOLLOWING WERE REVIEWED AND DO NOT PERTAIN TO THIS PROJECT:
   A. THERE ARE NO NATURAL RESOURCE SITES.
   B. THERE ARE NO BORROW SITES.
   C. THERE ARE NO CONSERVATION ZONES.
2. THE EXISTING VEGETATION IS MADE UP OF TREES, SHRUBS, AND VARIOUS GRASSES.
3. REFER TO LANDSCAPE PLANS FOR PERMANENT VEGETATION.
4. ALL ESC MEASURES WILL BE COMPLETED IN A SINGLE PHASE.
5. SITE WORK WILL BE COMPLETED IN A SINGLE PHASE.
6. EXPECTED TIME PERIOD OF LAND DISTURBING ACTIVITIES IS 18 MONTHS.

SCHEDULE FOR CONSTRUCTION AND IMPLEMENTATION OF ESCP CONTROLS

1. HOLD PRE-CONSTRUCTION CONFERENCE.
2. FLAG OR FENCE CLEARING LIMITS.
3. INSTALL ESC MEASURES PRIOR TO CONSTRUCTION.
4. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH DEQ STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
5. PERFORM DAILY INSPECTIONS OF THE ESC FACILITIES AND MAINTAIN WRITTEN RECORDS OF INSPECTIONS.
6. UPGRADE ESC MEASURES TO HANDLE MAJOR CHANGE IN SITE/WEATHER CONDITIONS.
7. STABILIZE ALL AREAS WITHIN 7 DAYS OF REACHING FINAL GRADE.
8. SWEEP STREETS ADJACENT TO CONSTRUCTION ENTRANCES A MINIMUM OF ONCE PER WEEK. USE OF WATER TRUCKS TO WASH DOWN STREETS IS NOT ALLOWED AFTER BEGINNING OF PAVEMENT PLACEMENT.
9. REESTABLISH GROUND COVER OR LANDSCAPE AND STABILIZE ALL DISTURBED AREAS PRIOR TO REMOVING ESC MEASURES (POST-CONSTRUCTION). REFER TO LANDSCAPE PLANS FOR PERMANENT GROUND COVER/LANDSCAPING.

PRIVATE EROSION AND SEDIMENT CONTROL PLAN (ESCP) NOTES

1. THIS ESCP, NOTES AND DETAILS ARE DEVELOPED TO REMAIN EFFECTIVE UNTIL COMPLETION OF ALL CONSTRUCTION WITHIN THE LIMITS SHOWN OR UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
2. THE EROSION SEDIMENT CONTROL (ESC) MEASURES SHOWN ON THE PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS.
3. DURING THE CONSTRUCTION PERIOD THESE ESC FACILITIES SHALL BE UPGRADED, AS NEEDED, FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE.
4. THE BOUNDARIES OF THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE PERMIT HOLDER AND/OR THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
5. THE IMPLEMENTATION OF THIS ESCP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
6. THE ESCP FACILITIES SHALL BE INSPECTED DAILY BY THE PERMIT HOLDER AND/OR THE CONTRACTOR AND MAINTAINED, AS NECESSARY, TO ENSURE THEIR CONTINUED FUNCTIONING. CONTRACTOR SHALL MAINTAIN DAILY LOG OF INSPECTIONS.
7. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
8. ALL DETAILS SHOWN ON SHEET CS-101 MAY NOT BE REQUIRED.
9. NO HAZARDOUS SUBSTANCES, SUCH AS PAINT, THINNERS, FUELS, AND OTHER CHEMICALS SHALL BE RELEASED ONTO THE SITE, ADJACENT PROPERTIES, OR INTO WATER FEATURES, STORM WATER SYSTEMS, OR RELATED NATURAL RESOURCES.
10. ALL UTILITY CONNECTIONS SHALL MEET ESC REQUIREMENTS. CONTRACTOR SHALL INSTALL SEDIMENT BARRIERS DOWN GRADE OF DISTURBED AREAS AND PROTECT DOWNSTREAM STORM WATER INLETS.
11. ALL SEDIMENT BARRIERS WILL REMAIN IN PLACE UNTIL DRAINAGE FACILITIES ARE CONSTRUCTED AND PERMANENT GROUND COVER HAS BEEN RE-ESTABLISHED.
12. ALTERNATIVE INLET PROTECTION METHODS ARE ENCOURAGED ON THIS PROJECT. THIS ALLOWS THE OPPORTUNITY TO USE NEW AND INNOVATIVE EROSION PRODUCTS AND TECHNIQUES. COORDINATE ALL ALTERNATE PROTECTION METHODS WITH THE GOVERNING JURISDICTION'S EROSION PREVENTION TEAM AND THE ENGINEER.
13. FOR CONSTRUCTION BETWEEN OCTOBER 1-MAY 31, ADDITIONAL WET WEATHER MEASURES ARE REQUIRED (ESTABLISHED GRASS, 2" MINIMUM STRAW MULCH COVER, OR 3" MINIMUM COMPOST/ORGANIC SOIL MULCH COVER REQUIRED ON ANY AREAS OF EXPOSED SOIL).
14. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER WATERTIGHT TRUCKS SHALL BE USED OR LOADS SHALL BE DRAINED ON SITE UNTIL DRIPPING HAS BEEN REDUCED TO NO MORE THAN ONE GALLON PER HOUR. SEDIMENT-LADEN DRIPPAGE WILL NOT BE ALLOWED TO ENTER THE STORM SYSTEM.

DEQ STANDARD EROSION AND SEDIMENT CONTROL PLAN (ESCP) NOTES

1. HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS. (SCHEDULE A.5.b.i.(3))
2. THE ESCP MUST BE KEPT ONSITE AND ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN MUST BE INSTALLED IN SUCH A MANNER TO ENSURE THAT SEDIMENT OR SEDIMENT LADEN WATER THAT ENTERS OR IS LIKELY TO ENTER SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATER, ROADWAY, OR OTHER PROPERTIES DOES NOT OCCUR. (SCHEDULE A.3.a.) AND (SCHEDULE B.3.b.)
3. THE IMPLEMENTATION OF THE ESCP AND CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THE EROSION AND SEDIMENT CONTROL MEASURES IS THE RESPONSIBILITY OF THE PERMIT REGISTRANT UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE LOCAL DEVELOPMENT AGENCY AND VEGETATION/LANDSCAPING IS ESTABLISHED. THE PERMIT REGISTRANT SHALL BE RESPONSIBLE FOR MAINTENANCE AFTER THE LOTS ARE APPROVED, UNTIL THE LOTS ARE SOLD AND THE 1200-C PERMIT IS TERMINATED. (SCHEDULE A.4.a.) AND (SCHEDULE D.3.)
4. THE PERMIT REGISTRANT MUST BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH LOCAL, STATE, OR FEDERAL REGULATIONS. (SCHEDULE A.5.a.) AND (SCHEDULE A.6.a.)
5. EROSION AND SEDIMENT CONTROL MEASURES INCLUDING PERIMETER SEDIMENT CONTROL MUST BE IN PLACE BEFORE VEGETATION IS DISTURBED AND MUST REMAIN IN PLACE AND BE MAINTAINED, REPAIRED, AND PROMPTLY IMPLEMENTED FOLLOWING PROCEDURES ESTABLISHED FOR THE DURATION OF CONSTRUCTION, INCLUDING PROTECTION FOR ACTIVE STORM DRAIN INLETS AND CATCH BASINS AND APPROPRIATE NON-STORMWATER POLLUTION CONTROLS. (SCHEDULE A.5.b.ii.(2)), (SCHEDULE A.5.b.ii.(7)), (SCHEDULE A.7.d.i.(2)) & (SCHEDULE A.7.f.)

DEQ STANDARD EROSION AND SEDIMENT CONTROL PLAN (ESCP) NOTES (CONTINUED)

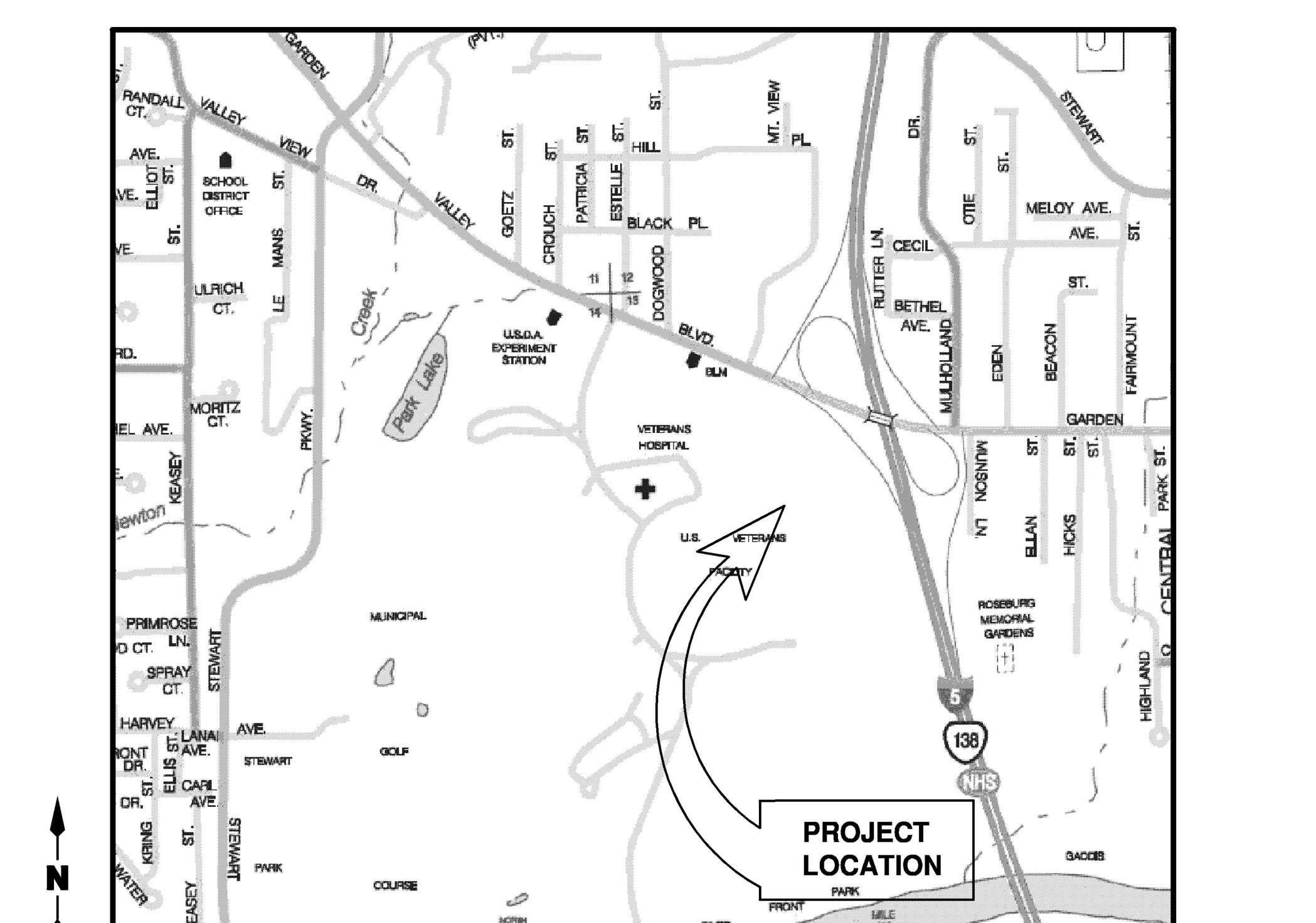
4. BEGIN LAND CLEARING, EXCAVATION, TRENCHING, CUTTING OR GRADING AND EARTHWORK-SURFACE ROUGHING AFTER INSTALLING APPLICABLE SEDIMENT, EROSION PREVENTION AND RUNOFF CONTROL MEASURES NOT IN THE DIRECT PATH OF WORK. (SCHEDULE A.5.B.ii.(5)(A)), (SCHEDULE A.7.c.i.(1)) AND (SCHEDULE A.7.c.ii.(1))
5. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES AND FOR ALL ROADWAYS INCLUDING GRAVEL ROADWAYS. (SCHEDULE A.5.b.ii.(5).(b), (SCHEDULE A.5.b.ii.(5)(c) & (SCHEDULE A.5.b.ii.(6).)
6. WET WEATHER BMPS: CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND ON SLOPES GREATER THAN FIVE (5) PERCENT FROM OCTOBER 1 THROUGH MAY 31 EACH YEAR. (SCHEDULE A.7.a.i.)
7. WET WEATHER BMPS: TEMPORARY STABILIZATION OF THE SITE MUST BE INSTALLED AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND OR AT THE END OF EACH WORKDAY IF RAINFALL IS FORECAST IN THE NEXT 24 HOURS AND EACH WEEKEND AND HOLIDAY. (SCHEDULE A.7.a.ii.)
8. IDENTIFY, MARK, AND PROTECT (BY FENCING OFF OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. PRESERVE EXISTING VEGETATION AND RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. (SCHEDULE A.5.b.i.(1) & (2)) AND (SCHEDULE A.7.c.iii.(1))
9. PROVIDE PERMANENT EROSION PREVENTION MEASURES ON ALL EXPOSED AREAS TO PREVENT FROM BECOMING A SOURCE OF EROSION AND REMOVE ALL TEMPORARY CONTROL MEASURES, UNLESS LOCAL ORDINANCES REQUIRE OTHERWISE, AS AREAS ARE STABILIZED. (SCHEDULE A.5.b.ii.(8)) AND (SCHEDULE A.7.c.ii.(2))
10. ALL TEMPORARY SEDIMENT CONTROLS MUST REMAIN IN PLACE UNTIL PERMANENT VEGETATION OR OTHER PERMANENT COVERING OF EXPOSED SOIL IS ESTABLISHED. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED. (SCHEDULE A.7.c.iii.(3)) & (SCHEDULE A.7.c.iii.(4))
11. SEDIMENT CONTROLS MUST BE INSTALLED AND MAINTAINED ALONG THE SITE PERIMETER ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE AND AT ALL ACTIVE AND OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION. (SCHEDULE A.7.d.i.(1) - (2))
12. PRIOR TO ANY LAND DISTURBING ACTIVITIES EACH SITE MUST HAVE GRAVELED, PAVED, OR CONSTRUCTED ENTRANCES, EXITS AND PARKING AREAS WITH EXIT TIRE WASH TO REDUCE THE TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS. (SCHEDULE A.7.d.iii.(1))
13. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER WATERTIGHT TRUCKS MUST BE USED OR LOADS MUST BE DRAINED ON-SITE UNTIL DRIPPING HAS BEEN REDUCED TO MINIMIZE SPILLAGE ON ROADS. (SCHEDULE A.7.d.iii(3))
14. TEMPORARY STABILIZATION OR COVERING OF SOIL STOCKPILES AND PROTECTION OF STOCKPILE LOCATED AWAY FROM CONSTRUCTION ACTIVITY MUST OCCUR AT THE END OF EACH WORKDAY OR OTHER BMPS, SUCH AS DIVERSION OF UNCONTAMINATED FLOWS AND INSTALLATION OF SEDIMENT FENCES AROUND STOCKPILES, MUST BE IMPLEMENTED TO PREVENT TURBID DISCHARGES TO SURFACE WATERS. (SCHEDULE A.7.e.i.(1)) & (SCHEDULE A.7.e.ii.(1) - (3))
15. BMPS THAT WILL BE USED TO PREVENT OR MINIMIZE STORMWATER FROM BEING EXPOSED TO POLLUTANTS FROM SPILLS, NO DISCHARGE OF CONCRETE TRUCK WASH WATER, VEHICLE AND EQUIPMENT CLEANING, VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE, OTHER CLEANING AND MAINTENANCE ACTIVITIES, AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, LEFTOVER PAINTS, SOLVENTS, AND GLUES FROM CONSTRUCTION OPERATIONS. (SCHEDULE A.7.e.i.(2))
16. ANY USE OF TOXIC OR OTHER HAZARDOUS MATERIALS MUST INCLUDE PROPER STORAGE, APPLICATION, AND DISPOSAL. (SCHEDULE A.7.e.iii.(2))
17. SOLID WASTE AND HAZARDOUS MATERIALS MANAGEMENT. FOLLOW PROJECT WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES; REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY; AND MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, MATERIAL USE, COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (SCHEDULE A.7.e.iii(3))
18. THE PERMITTEE MUST PROPERLY MANAGE HAZARDOUS WASTES, USED OILS, CONTAMINATED SOILS, CONCRETE WASTE, SANITARY WASTE, LIQUID WASTE, OR OTHER TOXIC SUBSTANCES DISCOVERED OR GENERATED DURING CONSTRUCTION AND MEET ALL STATE AND FEDERAL REGULATIONS AND APPROVALS. (SCHEDULE A.7.e.iii.(4))
19. THE ESCP MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE MEASURES MUST BE UPGRADED AS NEEDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS. CHANGES TO THE ESCP MUST ALSO BE SUBMITTED IN THE FORM OF AN ACTION PLAN TO DEQ OR ITS AGENT FOR APPROVAL. (SCHEDULE A.7.f.)
20. SIGNIFICANT AMOUNTS OF SEDIMENT, WHICH LEAVES THE SITE, MUST BE CLEANED UP WITHIN 24 HOURS AND PLACED BACK ON THE SITE AND STABILIZED OR PROPERLY DISPOSED. THE CAUSE OF THE SEDIMENT RELEASE MUST BE FOUND AND PREVENTED FROM CAUSING A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIME FRAME. (SCHEDULE A.7.f.i.(1))
21. VACUUMING OR DRY SWEEPING MUST BE USED TO CLEAN-UP RELEASED SEDIMENT AND MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES. (SCHEDULE A.7.f.i.(2))
22. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. TIME-RELEASE FERTILIZERS SHOULD BE USED WITH CARE WITHIN ANY WATERWAY RIPARIAN ZONE. (SCHEDULE A.7.f.i.(3))
23. SEDIMENT MUST BE REMOVED FROM BEHIND A SEDIMENT FENCE WHEN IT HAS REACHED A HEIGHT OF 1/3 THE HEIGHT OF THE FENCE ABOVEGROUND AND BEFORE FENCE REMOVAL. (SCHEDULE A.7.f.ii.(1))
24. SEDIMENT MUST BE REMOVED FROM BEHIND BIO BAGS AND OTHER BARRIERS IT HAS REACHED A HEIGHT OF TWO (2) INCHES AND BEFORE BMP REMOVAL. (SCHEDULE A.7.f.ii.(2))
25. REMOVAL OF TRAPPED SEDIMENT IN A SEDIMENT BASIN OR SEDIMENT TRAP OR CATCH BASINS MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY (50)% AND AT COMPLETION OF PROJECT. (SCHEDULE A.7.f.ii.(3) & (4))
26. DEQ MUST APPROVE OF ANY TREATMENT SYSTEM AND OPERATIONAL PLAN THAT MAY BE NECESSARY TO TREAT CONTAMINATED CONSTRUCTION DEWATERING OR SEDIMENT AND TURBIDITY IN STORMWATER RUNOFF. (SCHEDULE A.7.f.iii.)
27. SHOULD ALL CONSTRUCTION ACTIVITIES CEASE FOR THIRTY DAYS OR MORE, THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY SEEDING, OR OTHER METHOD. (SCHEDULE A.8.a.)
28. SHOULD CONSTRUCTION ACTIVITIES CEASE FOR FIFTEEN (15) DAYS OR MORE ON ANY SIGNIFICANT PORTION OF A CONSTRUCTION SITE TEMPORARY STABILIZATION IS REQUIRED FOR THAT PORTION OF THE SITE WITH STRAW, COMPOST, OR OTHER TACKIFIED COVERING THAT PREVENT SOIL OR WIND EROSION UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SCHEDULE A.8.b.)
29. DAILY INSPECTIONS WHEN RAINFALL AND RUNOFF OCCURS OF THE BMPS AND DISCHARGE OUTFALLS MUST BE THE PROJECT ESCP INSPECTOR. THESE INSPECTIONS AND OBSERVATIONS MUST BE RECORDED IN A LOG THAT IS AVAILABLE ON SITE. (SCHEDULE A.6.b.i.) & (SCHEDULE B.1.b(1))
30. BMPS MUST BE INSPECTED BEFORE, DURING, AND AFTER SIGNIFICANT STORM EVENTS. (SCHEDULE A.7.f.)
31. ALL ESCP CONTROLS AND PRACTICES MUST BE INSPECTED VISUALLY ONCE TO ENSURE THAT BMPS ARE IN WORKING ORDER PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY AND MUST BE INSPECTED VISUALLY ONCE EVERY TWO (2) WEEKS DURING INACTIVE PERIODS GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS. (SCHEDULE B.1.b.(2)-(3))
32. IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION DURING PERIODS WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER. (SCHEDULE B.1.b.(4))

BMP TABLE WITH ESCP IMPLEMENTATION SCHEDULE

BMP'S	YES	NO	IF NO, RATIONALE	YEAR	2012			2013												2014		
				MONTH	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
RUNOFF CONTROLS																						
STABILIZE STREAM BANKS / CONSTRUCT PRIMARY RUNOFF CONTROL MEASURES		X	SEE BELOW																			
ENERGY DISSIPATERS		X	SEE BELOW																			
RUN-ON DIVERSION		X	SEE BELOW																			
TEMPORARY DIVERSION DIKES		X	SEE BELOW																			
GRASS-LINED CHANNEL (TURF REINFORCEMENT MATS)		X	SEE BELOW																			
TRENCH DRAINS (COLLECTED RUNOFF TO TREATMENT BMP)		X	SEE BELOW																			
DROP INLETS		X	SEE BELOW																			
CHECK DAMS		X	SEE BELOW																			
CLEARING & GRUBBING PRACTICES																						
TOP-SOILING		X	SEE BELOW																			
TEMPORARY SEEDING & PLANTING	X				X	X	X	X	X	X												
PERMANENT SEEDING & PLANTING	X																			X	X	X
MYCORRHIZAE / BIOFERTILIZERS		X	SEE BELOW																			
MULCHES	X																			X	X	X
COMPOST BLANKETS		X	SEE BELOW																			
EROSION CONTROL BLANKETS & MATS		X	SEE BELOW																			
SOIL BINDERS		X	SEE BELOW																			
SOIL TACKIFIERS		X	SEE BELOW																			
SODDING VEGETATIVE BUFFER STRIPS		X	SEE BELOW																			
PROTECTION OF TREES WITH CONSTRUCTION FENCING	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VEGETATIVE EROSION CONTROLS																						
LIVE STAKING (STABILIZATION PRACTICE)		X	SEE BELOW																			
LIVE FASCINES / BRUSH WATTLES (STABILIZATION)		X	SEE BELOW																			
STABILIZATION MATS (STABILIZATION PRACTICE)		X	SEE BELOW																			
POLE PLATING (STREAM BANK STABILIZATION)		X	SEE BELOW																			
BRUSH BOX (STREAM BANK STABILIZATION)		X	SEE BELOW																			
GRASS-LINED CHANNEL (TURF REINFORCEMENT MATS)		X	SEE BELOW																			
FASCINES WITH SUB-DRAINS (STREAM BANK STABILIZATION)		X	SEE BELOW																			
LIVE POLE DRAINS (STREAM BANK STABILIZATION) (MAY HAVE TO BE REMOVED FOR STABILIZATION)		X	SEE BELOW																			
BRUSH PACKING (STREAM BANK STABILIZATION)		X	SEE BELOW																			
LIVE GULLY FILL REPAIR (STREAM BANK STABILIZATION)		X	SEE BELOW																			
EROSION CONTROL PRACTICES																						
SEDIMENT FENCING	X**				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SAND BAG BARRIER		X	SEE BELOW																			
GRAVEL BAG BERM (WITH COMPOST BERM)		X	SEE BELOW																			
EARTH DIKES (STABILIZED)		X	SEE BELOW																			
DRAINAGE SWALES		X	SEE BELOW																			
SUBSURFACE DRAINS - DAYLIGHT TO SURFACE		X	SEE BELOW																			
ROCK OUTLET PROTECTION		X	SEE BELOW																			
SEDIMENT TRAP		X	SEE BELOW																			
ROCK & BUSH FILTERS (STREAM BANK STABILIZATION)		X	SEE BELOW																			
COMPOST BERM / COMPOST SOCK		X	SEE BELOW																			
FIBER ROLLS / STRAW WATTLES		X	SEE BELOW																			
EXISTING STORM INLET PROTECTION	X**				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
NEW STORM INLET PROTECTION	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TEMPORARY / PERMANENT SEDIMENTATION BASINS		X	SEE BELOW																			
UNPAVED ROADS GRAVELED OR OTHER BMP ON THE ROAD OR DOWN GRADIENT		X	SEE BELOW																			
DEWATERING AND PONDED WATER MANAGEMENT	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAVING OPERATIONS CONTROLS	X																				X	X
TEMPORARY EQUIPMENT BRIDGE		X	SEE BELOW																			
BMPs TO PREVENT ILLICIT CONNECTION		X	SEE BELOW																			
BMPs TO PREVENT ILLEGEL DISCHARGE		X	SEE BELOW																			
REUSE & RECYCLE CONSTRUCTION WASTES	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STABILIZED CONSTRUCTION ENTRANCE	X**				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CONCRETE WASHOUT AREA	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DUST CONTROL	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

X** = MEASURES TO BE INSTALLED PRIOR TO ANY GROUND DISTURBING ACTIVITY

RATIONALE STATEMENT
A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICE (BMP) OPTIONS BASED ON DEQ's 1200-C PERMIT APPLICATION AND ESCP GUIDANCE DOCUMENT HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMPs WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENETION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS, TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS. AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESCP, AN ACTION PLAN WILL BE SUBMITTED.



VICINITY MAP
NO SCALE

PROJECT LOCATION
ROSEBURG
DOUGLAS COUNTY, OREGON
LATITUDE= 43.2261°
LONGITUDE= 123.3645°

PROPERTY/SITE DESCRIPTION
TAX LOT 300 (DOUGLAS COUNTY TAX MAP 27-06-13)
LOCATED IN THE NW 1/4 OF SECTION 13,
TOWNSHIP 27 SOUTH, RANGE 06 WEST, WILLAMETTE
MERIDIAN , DOUGLAS COUNTY, OREGON

TOTAL SITE AREA = 3.35 ACRES

TOTAL DISTURBED AREA = 3.35 ACRES

Revisions:	Date

CONSULTANTS:

BALZHISER & HUBBARD ENGINEERS
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653.0322.086.cs501.dwg

REGISTERED PROFESSIONAL ENGINEER 65619PE
DIGITAL SIGNATURE
OREGON
JAN. 10, 2008
TINA L. GUARD
EXPIRES 6/30/13

ARCHITECT/ENGINEERS:

Tina Ely architect
2915 Wingate Street / Eugene, OR 97408
541.521.2477 / Tina.Ely@comcast.net

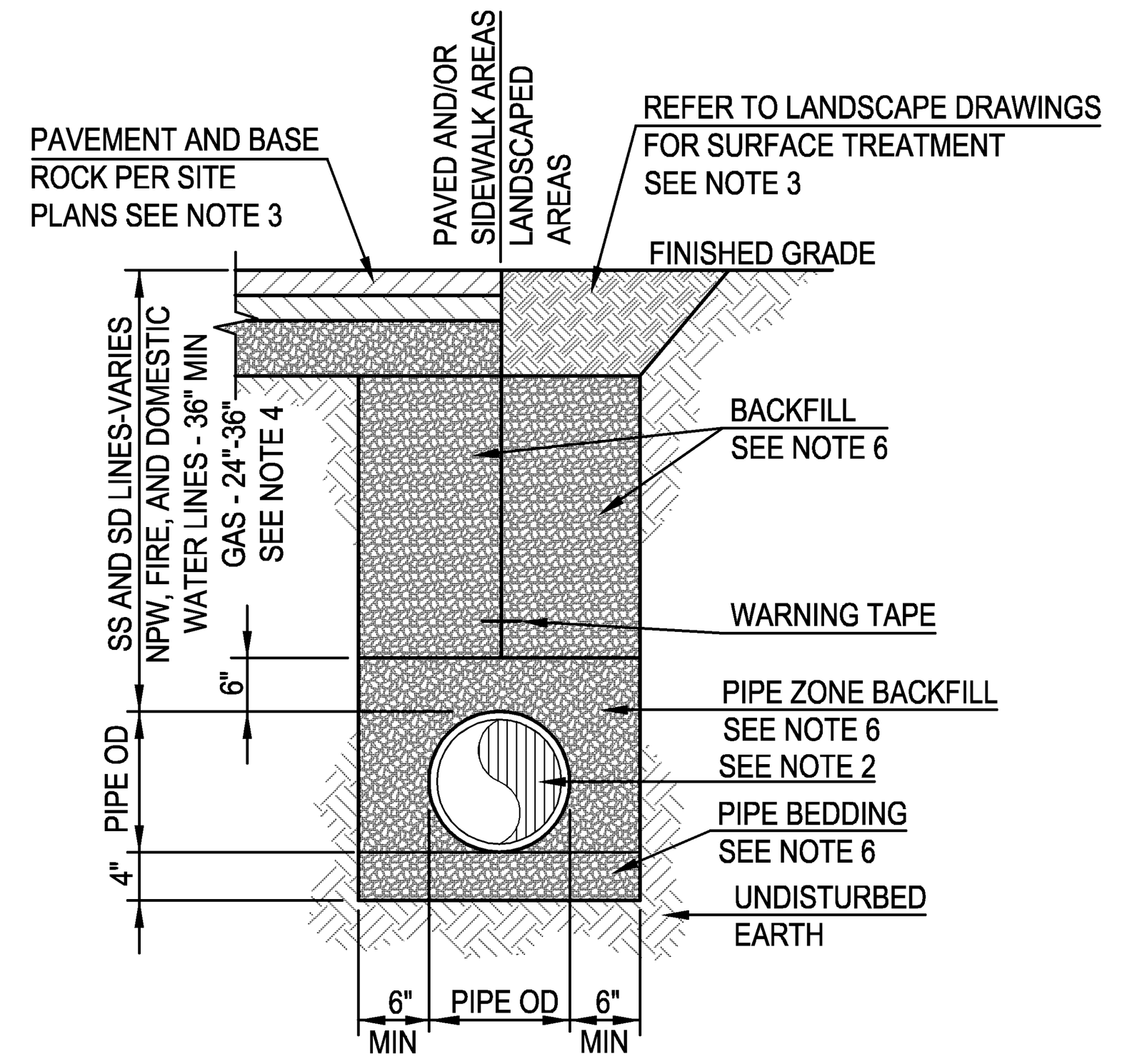
Drawing Title	EROSION AND SEDIMENT CONTROL NOTES
Approved: Project Director	
Project Title	SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD
Location	ROSEBURG, OREGON
Date	30 APR 2012
Checked	TLG
Drawn	JAH/CB
VA Project Number	653-322
Building Number	086
Sheet Number	CS-501

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

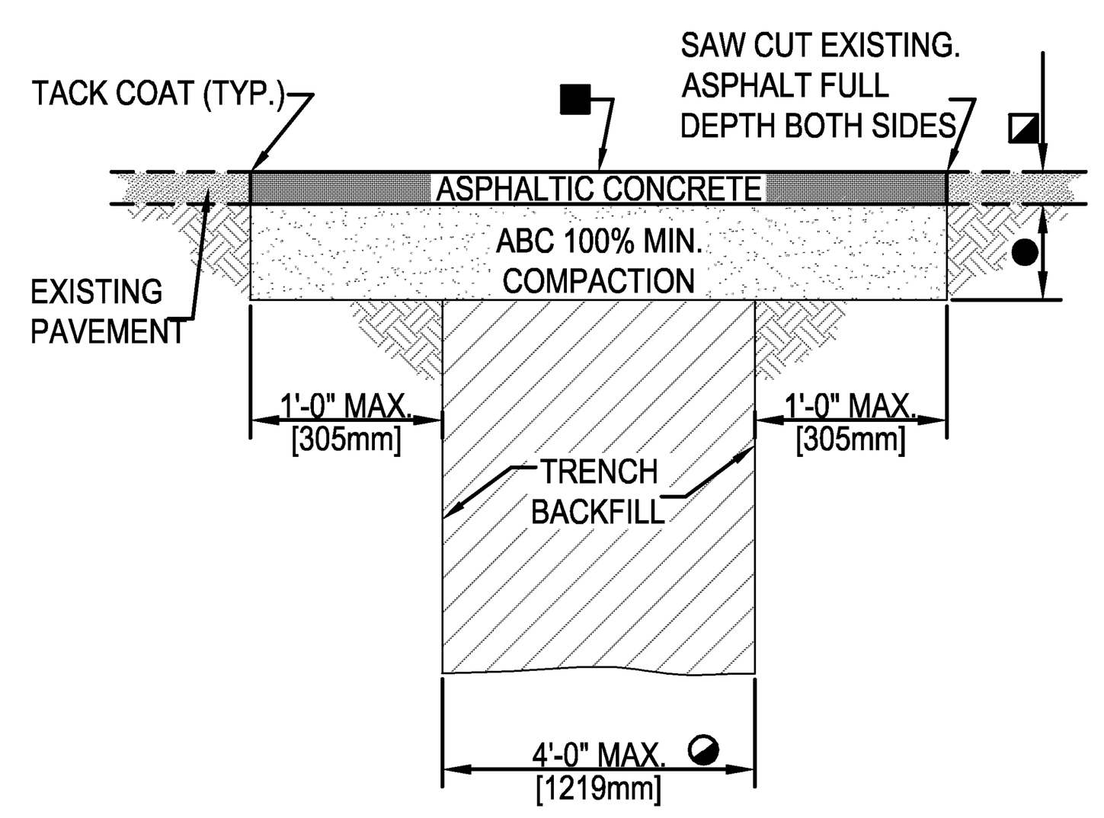
GENERAL NOTES

1. EXISTING TOPOGRAPHIC INFORMATION: FROM SURVEY PREPARED BY BALZHISER & HUBBARD ENGINEERS - SURVEYORS, TITLED "TOPOGRAPHIC SURVEY". DATED 10/30/10. CONTRACTOR SHALL REFER TO THE SURVEY DRAWINGS FOR EXISTING SITE CONDITIONS.
2. BASIS OF BEARING: BASED ON THE SURVEY BY MICHAEL SCHULZE FILED DECEMBER 16, 2008 AS MAP 157-5 IN THE SURVEY RECORDS OF DOUGLAS COUNTY. THE SURVEY HAS BEEN ROTATED USING FOUND MONUMENTS, TO THE OREGON STATE CO-ORDINATE SYSTEM, SOUTH ZONE. THE CONTROL FOR THIS SURVEY WAS BASED ON DOUGLAS COUNTY SURVEYOR'S OFFICE CONTROL POINTS AS SHOWN. THIS SURVEY IS NOT INTENDED TO BE USED IN LIEU OF A BOUNDARY SURVEY.
3. BASIS OF ELEVATION: BASED ON STATION S 596, AN OSHD BRASS CAP STAMPED "S 596 1965" SET IN THE GARDEN VALLEY BOULEVARD BRIDGE OVER I-5 WITH AN ELEVATION OF 497.04 (NVGD 29) ACCORDING TO THE RECORDS OF DOUGLAS COUNTY SURVEYOR.
4. THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING PROPERTY AND STREET MONUMENTS PRIOR TO CONSTRUCTION. ANY MONUMENTS DISTURBED DURING CONSTRUCTION OF THE PROJECT SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. THE MONUMENTS SHALL BE REPLACED WITHIN A MAXIMUM OF 90 DAYS, AND THE COUNTY SURVEYOR SHALL BE NOTIFIED IN WRITING AS REQUIRED BY ORS 209.150.
5. LOCATIONS OF EXISTING UTILITIES ARE ASSUMED FROM INFORMATION AVAILABLE AND ARE NOT GUARANTEED TO BE COMPLETE AND ACCURATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF EXISTING UTILITIES.
6. CONTRACTOR SHALL NOTIFY EACH UNDERGROUND UTILITY PRIOR TO EXCAVATING, BORING, OR POTHOLING. ATTENTION: OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN O.A.R. 952-001-0010 - 952-001-0090. THE CONTRACTOR MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 1-800-332-2344)
7. PRIOR TO CONSTRUCTION, POTHOLE AND VERIFY LOCATION AND ELEVATION OF ANY KNOWN ON-SITE UTILITIES.
8. PRIOR TO CONSTRUCTION, POTHOLE AND VERIFY LOCATION AND ELEVATION OF EXISTING STORM, SANITARY, AND WATER UTILITIES AT CONNECTION POINT(S) SHOWN ON PLANS. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS.
9. CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS AND COMPLY WITH REQUIREMENTS AND SPECIFICATIONS OF ANY RESPECTIVE UTILITY COMPANY FOR UTILITIES TO BE CUT, MOVED, RELOCATED, OR RE-CONNECTED TO AN EXISTING FACILITY.
10. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ANY SERVING UTILITY COMPANY INSTALLING UTILITIES ON SITE. CONSTRUCTION OF OTHER UTILITIES MAY OCCUR AT SAME TIME ON SITE.
11. QUANTITIES SHOWN ARE FOR THE PURPOSE OF IDENTIFYING LENGTHS. ACTUAL QUANTITIES MAY VARY. CONTRACTOR TO PROVIDE QUANTITIES NEEDED FOR LAYOUT OF SYSTEM.
12. CONTRACTOR SHALL PROVIDE AND INSTALL FITTINGS AS REQUIRED TO COMPLETE PIPE CONNECTIONS AND TRANSITIONS PER PLAN, AND TO CONFORM TO TRENCHING REQUIREMENTS AND SITE GRADES.
13. CURB QUANTITIES SHOWN ARE FOR THE PURPOSE OF IDENTIFYING CURB TYPES. ACTUAL QUANTITIES MAY VARY. CONTRACTOR TO PROVIDE QUANTITIES NEEDED FOR LAYOUT SHOWN.
14. MANHOLE AND CLEANOUT RIM ELEVATIONS ARE APPROXIMATE. FINAL ELEVATIONS MAY VARY AND SHALL MATCH FINISHED ELEVATIONS OF ADJACENT SURFACES.
15. COORDINATE FINAL ROOF DRAIN/DOWNSPOUT LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL/MECHANICAL DRAWINGS. COORDINATE FOOTING DRAIN LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS AND DETAILS.
16. TRACER WIRE SHALL ENTER ALL MANHOLE, INLETS, CLEANOUT, AND VALVE BOX STRUCTURES. EXTEND TRACER WIRE INTO STRUCTURE FAR ENOUGH TO PROVIDE ADEQUATE FREE WIRE TO EXTEND END OF WIRE 24" ABOVE/OUTSIDE OF STRUCTURE TO FACILITATE TESTING. COIL AND SECURE TRACER WIRE WITHIN EASY REACH OF STRUCTURE OPENING. VERIFY WIRE IS CLEAR OF ALL FILL MATERIAL IN CLEANOUT AND VALVE BOX STRUCTURES.
17. ALL SANITARY SEWER LATERAL CONNECTIONS TO BE CONSTRUCTED USING WYE FITTINGS OR MANHOLES.
18. CAP AND MARK ALL STORM PIPE ENDS WITH A 2"x4" BOARD STUCK IN GROUND. END OF BOARD SHALL BE PAINTED WHITE AND EXTEND MINIMUM 18" ABOVE GROUND SURFACE.
19. CAP AND MARK ALL SANITARY SEWER PIPE ENDS WITH A 2"x4" BOARD STUCK IN GROUND. END OF BOARD SHALL BE PAINTED GREEN AND EXTEND MINIMUM 18" ABOVE GROUND SURFACE.
20. CAP AND MARK ALL DOMESTIC WATER, FIRE SERVICE, AND/OR IRRIGATION SERVICE PIPE ENDS WITH A 2"x4" BOARD STUCK IN GROUND. END OF BOARD SHALL BE PAINTED BLUE AND EXTEND MINIMUM 18" ABOVE GROUND SURFACE.
21. PROVIDE MECHANICAL JOINT RESTRAINT ON DOMESTIC WATER AND FIRE PROTECTION SERVICE LINES, PER DETAIL 5/CS-505.
22. WATER PIPES CROSSING SANITARY SEWER AND/OR STORM DRAINAGE PIPING: WATER PIPES CROSSING SEWER OR DRAINAGE PIPING CONSTRUCTED OF CLAY OR MATERIALS THAT ARE NOT APPROVED FOR USE WITHIN A BUILDING SHALL BE LAID A MINIMUM OF 12" ABOVE THE SEWER OR DRAIN PIPE. WHERE MINIMUM SEPARATION CANNOT BE MET, SANITARY SEWER AND/OR STORM DRAIN LINE SHALL BE CONSTRUCTED OF MATERIAL APPROVED FOR USE UNDER BUILDINGS, WITH A FULL LENGTH OF PIPE CENTERED AT THE CROSSING POINT, AND EXTENDING 10' MIN EACH SIDE OF CROSSING.
23. ALL DOMESTIC WATER AND FIRE PROTECTION SERVICE BOLTED JOINT ASSEMBLIES SHALL BE THOROUGHLY COVERED IN ASPHALTIC COATING FOR CORROSION PROTECTION.
24. PRIOR TO COMMENCING ANY VERTICAL, COMBUSTIBLE CONSTRUCTION, FIRE PROTECTION SERVICE LINE (INCLUDING ALL FIRE HYDRANTS) SHALL BE CONSTRUCTED, INSPECTED, TESTED, AND IN FULL OPERATION.
25. FIRE LINE TESTING:
   A. FLUSHING - ALL UNDERGROUND PIPING, FROM THE WATER SUPPLY TO THE SYSTEM RISER, SHALL BE FLUSHED PER NFPA 24, SECTION 10.10.2.1.
   B. HYDROSTATIC TESTING - ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED PER NFPA 24, SECTION 10.10.2.2 - SECTION 10.10.2.6.
   C. CONDUCT A PRE-PRESSURE TEST TO VERIFY JOINT TIGHTNESS BEFORE CALLING FOR A FIRE INSPECTION.
   D. COMPLETE INSTALLATION CERTIFICATION FORM AND HAVE FORM AVAILABLE ON-SITE PRIOR TO FIRE INSPECTION.
   E. BACKFLOW PREVENTION ASSEMBLIES SHALL BE FORWARD FLOW TESTED PER NFPA 10.10.2.5.
26. REFER TO SHEET CS-101 AND CS-501 FOR EROSION AND SEDIMENT CONTROL MEASURES AND ADDITIONAL CONSTRUCTION REQUIREMENTS.
27. CONTRACTOR SHALL INCLUDE DEMOLITION OF EXISTING PRIVATE STORM DRAIN, SANITARY SEWER, AND WATER UTILITIES. REMOVE EXISTING STRUCTURES WHERE ENCOUNTERED. CUT AND CAP EXPOSED ENDS OF EXISTING PIPES ENCOUNTERED. ABANDON EXISTING PIPE IN PLACE IN ALL AREAS EXCEPT UNDER NEW BUILDINGS AND WHERE NOTED ON DRAWINGS. REMOVE EXISTING PIPES BENEATH NEW BUILDINGS.



NOTES
1. WATER LINES THAT PARALLEL SANITARY SEWER LINES SHALL BE LOCATED A MINIMUM OF 12" ABOVE SEWER LINES, WHERE SERVICES ARE NOT HORIZONTALLY SEPARATED BY 10'.
2. WITHIN 5' OF A BUILDING STRUCTURE, BUILDING CODE APPROVED PIPE MATERIAL AND CRUSHED ROCK TRENCH BACKFILL SHALL BE USED.
3. REMOVE AND RESTORE/REPAIR EXISTING PAVEMENT OR LANDSCAPE SURFACE AS SHOWN ON GS-120.
4. 36" MINIMUM FOR FIRE SERVICE PIPES UNDER AREAS TRAFFICKED BY VEHICLES. (NFPA 24, 10-4)
5. INSTALL TRACER WIRE AND/OR WARNING TAPE FOR EACH UTILITY AS SPECIFIED.
6. PIPE BEDDING, PIPE ZONE BACKFILL, AND REMAINING BACKFILL SHALL BE COMPACTED CRUSHED ROCK MATERIAL PER SPECIFICATION SECTION 31 20 00 UNLESS OTHERWISE NOTED. BEDDING FOR NATURAL GAS PIPE SHALL BE 6" DEPTH SAND. BACKFILL FOR NATURAL GAS SHALL BE SAND EXTENDING 12" ABOVE TOP OF PIPE.

A TYPICAL TRENCHING & BACKFILL SECTION
NO SCALE



- FOR TRENCH WIDTHS EXCEEDING 4' [1219mm] REFER TO VA STANDARD DETAIL 32 12 16-02 "TYPE 2 UTILITY TRENCH PATCH". FOR TRENCH WHERE PORTLAND CEMENT CONCRETE (PCC) PAVEMENT EXISTS, REFER TO 32 12 16-03 "TYPE 3 UTILITY TRENCH PATCH".
- 2" [50mm] MINIMUM OR THICKNESS OF EXISTING PAVEMENT WHICHEVER IS GREATER.
- BITUMINOUS SURFACE TREATMENT (CHIPSEAL) REQUIRED ONLY FOR LONGITUDINAL TRENCHES WITH WIDTHS GREATER THAN 6' [1829mm].
- 4" [100mm] MINIMUM ABC OR THICKNESS OF EXISTING GRANULAR BASE COURSE MATERIALS (E.G. ABC & SELECT MATERIAL) WHICHEVER IS GREATER. REFER TO VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES" FOR ADDITIONAL INFORMATION.

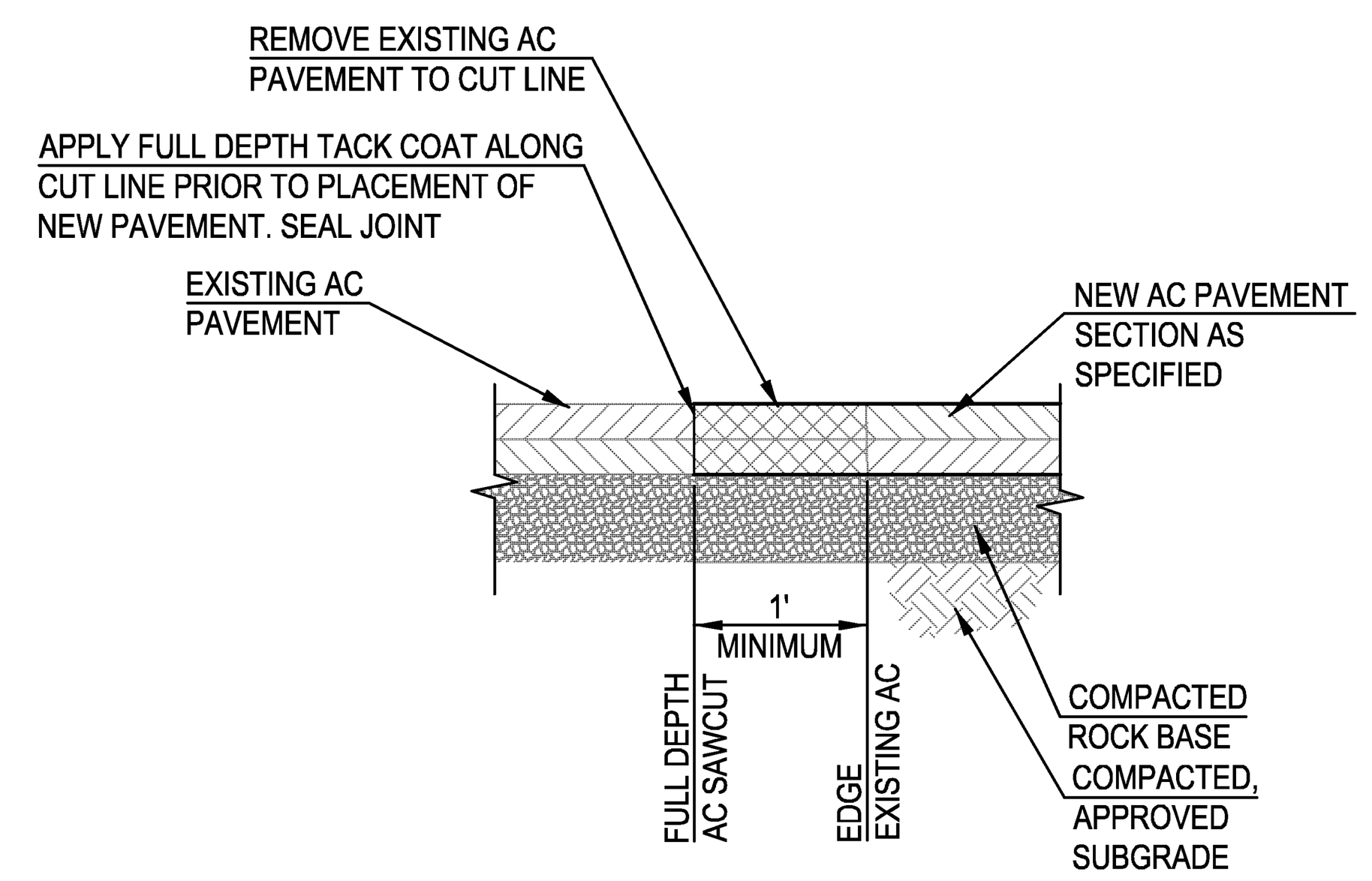
B TYPE 1 UTILITY TRENCH PATCH
NO SCALE

CIVIL LEGEND

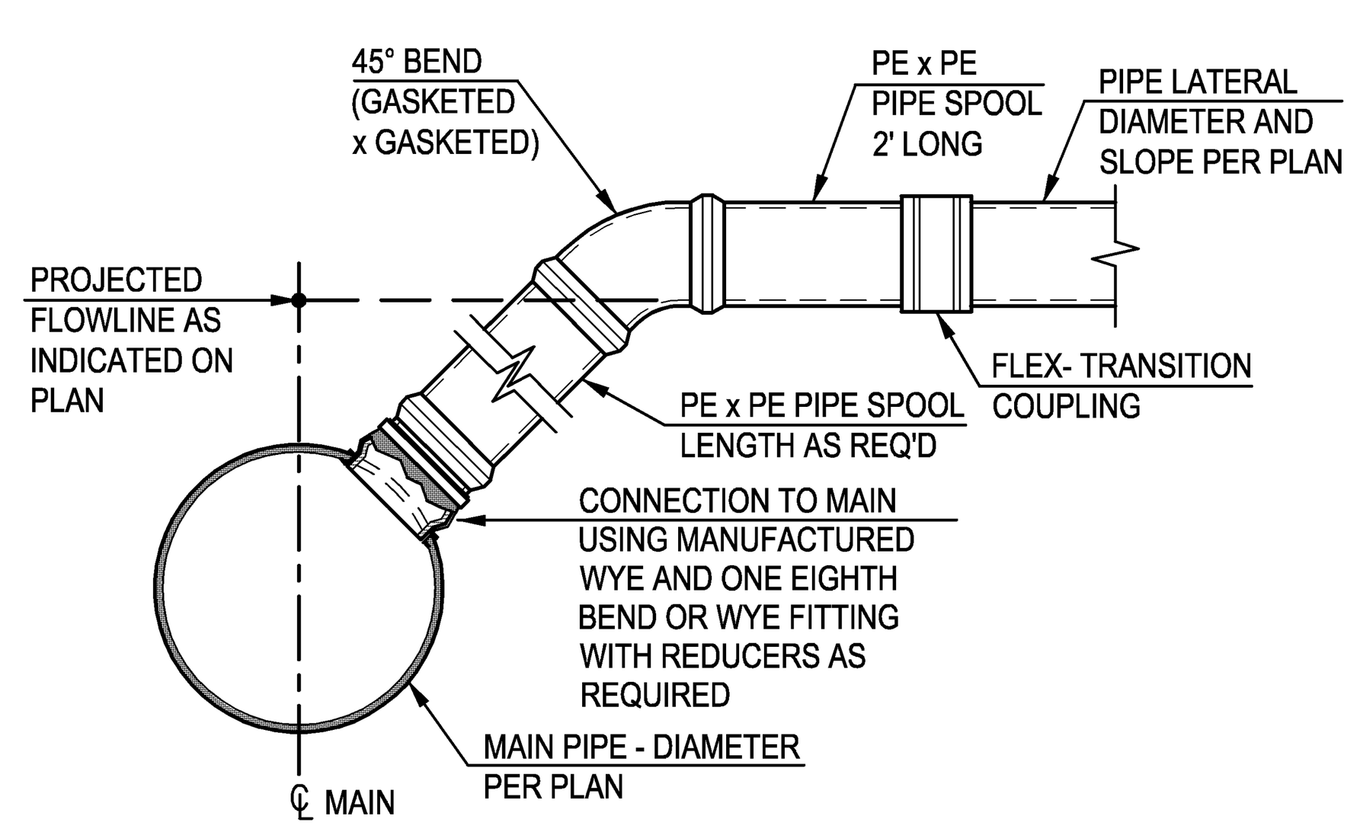
SYMBOL	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
10"SD	SD	STORM DRAIN WITH SIZE	AC	ASPHALT CONCRETE
4"PERF	PERF	STORM DRAIN PERF PIPE WITH SIZE	APPROX	APPROXIMATELY
TD	TD/SL	TRENCH DRAIN/SLOTTED DRAIN	BLDG	BUILDING
8"SS	SS	SANITARY SEWER WITH SIZE	BWALL	BOTTOM OF WALL ELEVATION
6"W	W	DOMESTIC WATER WITH SIZE	CONC	PORTLAND CEMENT CONCRETE
8"F	F	FIRE PROTECTION SERVICE WITH SIZE	DOCK	TOP OF LOADING DOCK ELEVATION
	-	PIPE WITH FLOW DIRECTION ARROW	ELEV	ELEVATION
G	G	NATURAL GAS SERVICE WITH SIZE	EX	EXISTING
	C/G	CURB or CURB/GUTTER	FFE	FINISHED FLOOR ELEVATION
R R R	R	GRADING RIDGE LINE	FL	FLOWLINE
V V V	V	GRADING VALLEY LINE	FS	FINISHED SURFACE ELEVATION (LANDSCAPE AREAS)
1 / C-105	DET	DETAIL REFERENCE - DETAIL # OVER SHEET #	GB	GRADE BREAK
5	-	CONSTRUCTION NOTE WITH REFERENCE NUMBER	LF	LINEAR FEET
			ME	MATCH EXISTING
A / CS-502	-	SECTION REFERENCE - SECTION # OVER SHEET #	PCC	POINT OF COMPOUND CURVE
			PRC	POINT OF REVERSE CURVE
	MH	MANHOLE STRUCTURE	PVMT	PAVEMENT
	CB	CATCH BASIN	RAD	RADIUS
	DCCB	DOUBLE CHAMBER CATCH BASIN	RIM	STRUCTURE RIM ELEVATION
	AD	AREA DRAIN	STD	STANDARD
	DD	DECK DRAIN	SW	SIDEWALK
CO	CO	CLEANOUT	TC	TOP OF CURB ELEVATION
VCO	VCO	VERTICAL DROP CLEANOUT	TP	TOP OF PAVEMENT ELEVATION
BW	BWV	BACKWATER VALVE	TW	TOP OF WALK ELEVATION
	-	PIPE TERMINATION (PLUG & MARK)	TWALL	TOP OF WALL ELEVATION
BFP	BFP	BACKFLOW PREVENTER & ENCLOSURE	TYP	TYPICAL
	GV	GATE VALVE (WITH VALVE BOX)	VG	VALLEY GUTTER
	FH	FIRE HYDRANT ASSEMBLY		

SURVEY LEGEND

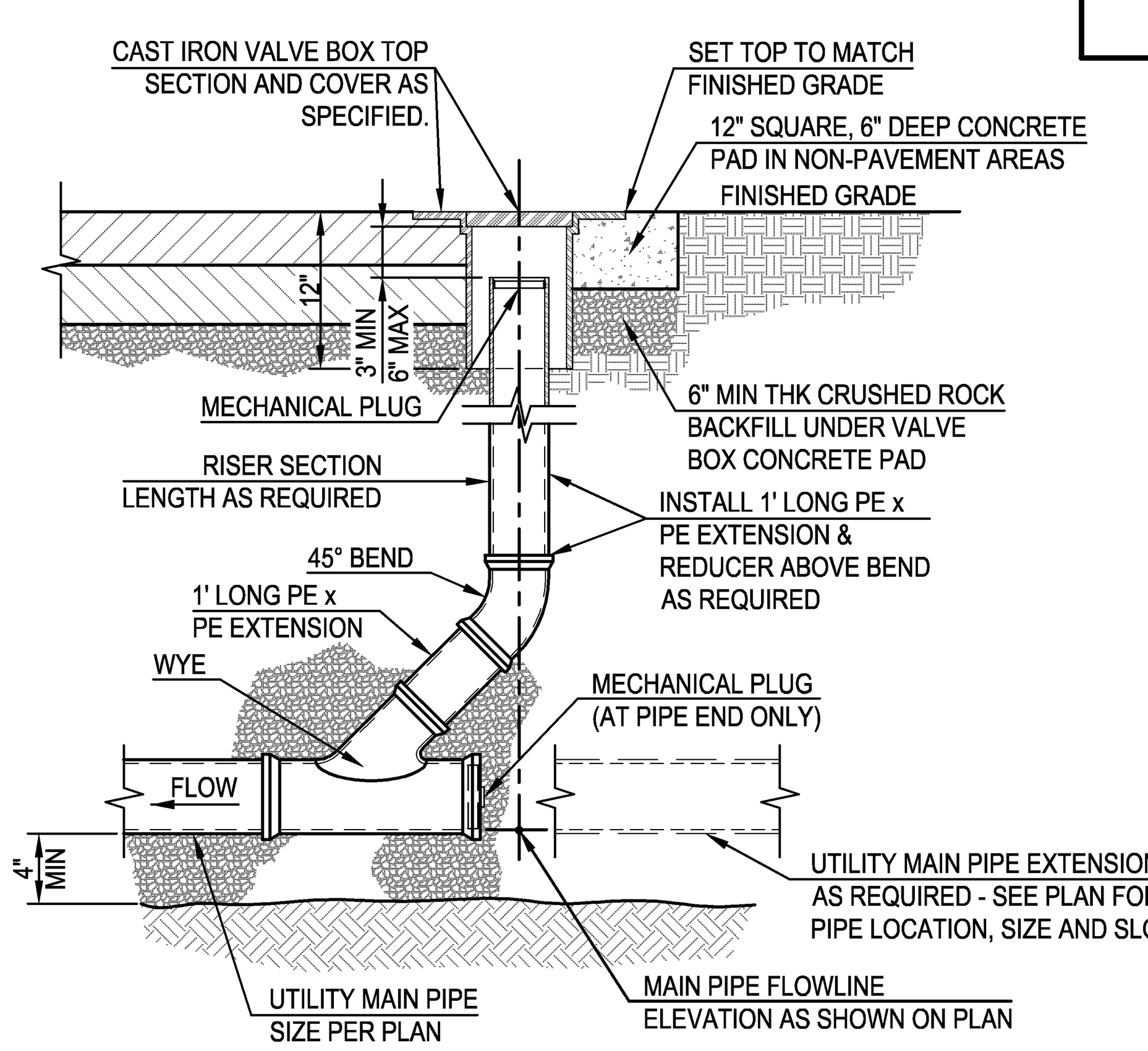
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SURVEY CONTROL POINT		WATER VALVE
	FOUND MONUMENT		WATER METER
	PROJECT BENCH MARK		IRRIGATION VALVE
	PROPERTY LINE	W	WATER VAULT
	EASEMENT LINE	BFP	BACK FLOW PREVENTER
210	5' CONTOUR INTERVAL		FIRE HYDRANT
209	1' CONTOUR INTERVAL	FDC	FIRE DEPARTMENT CONNECTION
100.00	SPOT ELEVATION		AREA DRAIN (SQUARE)
TOP	TOP OF BANK		AREA DRAIN (ROUND)
TOE	TOE OF SLOPE		TRENCH DRAIN
	DITCH LINE		ROOF DRAIN
	BUILDING		CURB INLET
	AWNING/BUILDING OVERHEAD	D	STORMWATER MANHOLE
	CONCRETE	C	CLEANOUT
	EDGE OF PAVEMENT	S	WASTEWATER MANHOLE
	GRAVEL	G	GAS METER
	CURB AND GUTTER	G	GAS VALVE
	EXTRUDED CURB	HV AC	HVAC EQUIPMENT
	PAINT STRIPE		SIGN
	CYCLONE FENCE		BOLLARD
	HANDRAIL		FLAG POLE
UG	UNDERGROUND UTILITY LINE		POLE
W	UNDERGROUND WATER LINE		WOOD POST
STM	UNDERGROUND STEAM LINE		UTILITY POLE
SD	UNDERGROUND STORMWATER LINE	SL	STREET LIGHT BOX
WW	UNDERGROUND WASTEWATER LINE		STREET LIGHT OR PATH LIGHT
G	UNDERGROUND GAS LINE	EM	ELECTRIC METER
FO	UNDERGROUND FIBEROPTIC LINE	E	ELECTRIC RISER
COMM	UNDERGROUND COMM LINE	E	ELECTRIC VAULT
E	UNDERGROUND ELECTRIC	TV	CABLE TV RISER
SL	UNDERGROUND ELECTRIC (LIGHTS)	T	TELEPHONE RISER
	UNDERGROUND TUNNEL	T	TELEPHONE VAULT
	SHRUB	U	UNKNOWN RISER
	ARBORVITAE	U	UNKNOWN VAULT
	CONIFEROUS TREE	U	UNKNOWN MANHOLE
	BROADLEAF TREE		ADA PARKING
			BOULDER
			GOLF TEE
			GOLF PIN



C SAWCUT SECTION
NO SCALE

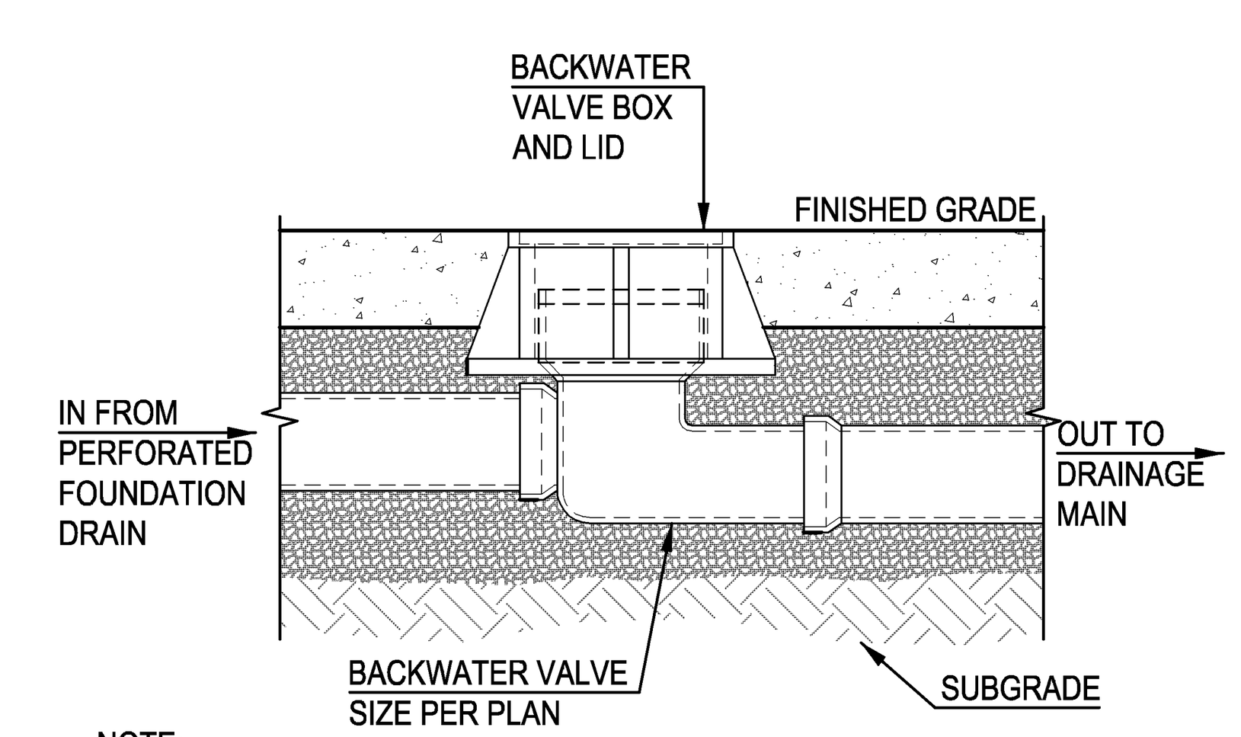


1 VERTICAL DROP CONNECTION
NO SCALE



NOTES
1. TRACER WIRE SHALL ENTER STRUCTURE WITH RISER PIPE. PROVIDE ENOUGH FREE WIRE TO EXTEND 24" ABOVE FINISHED GRADE TO FACILITATE TESTING. VERIFY FREE END OF WIRE IS WITHIN EASY REACH OF OPENING IN TOP SECTION.
2. CLEANOUT FITTINGS AND RISER PIPE SIZE TO BE SAME AS MAINLINE DIAMETER.
3. REFER TO SPECIFICATION SECTION 33 30 00 FOR SANITARY SEWER CLEANOUTS AND SECTION 33 40 00 FOR STORM DRAIN CLEANOUTS.

2 STANDARD CLEANOUT (CO)
NO SCALE



NOTE:
1. TRACER WIRE: WIRE SHALL ENTER STRUCTURE AT PIPE INLET OR OUTLET. PROVIDE ENOUGH FREE WIRE TO EXTEND 24" ABOVE TOP OF GRATE TO FACILITATE TESTING. COIL WIRE AND SECURE WITH NON-CORROSIVE FASTENER 2" UNDER FRAME.

3 BACKWATER VALVE INSTALLATION
NO SCALE

Revisions: | Date

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REGISTERED PROFESSIONAL ENGINEER 63819PE
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OREGON
JUAN. 18, 2006
TIMOTHY GUARDY
EXPIRES 6/30/13

ARCHITECT/ENGINEERS:

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Drawing Title: CIVIL AND SURVEY LEGENDS, GENERAL NOTES, AND DETAILS

Approved: Project Director

Project Title: SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD

Location: ROSEBURG, OREGON

Date: 30 APR 2012 | Checked: TLG | Drawn: JAH/CB

VA Project Number: 653-322

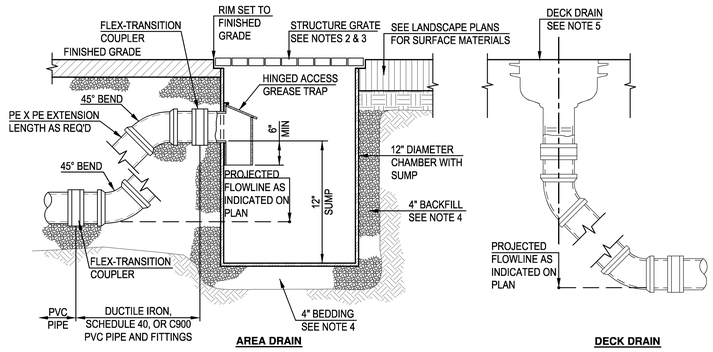
Building Number: 086

Sheet Number: CS-502

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

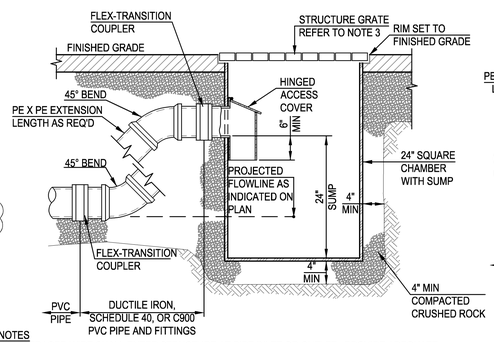


AREA DRAIN

DECK DRAIN

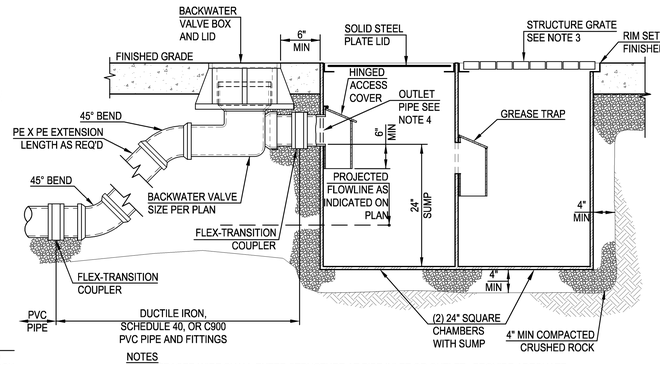
NOTES
1. TRACER WIRE SHALL ENTER STRUCTURE AT PIPE INLET OR OUTLET. PROVIDE ADEQUATE FREE WIRE TO EXTEND 24" ABOVE TOP OF GRATE TO FACILITATE TESTING. COIL WIRE AND SECURE WITH NON-CORROSIVE FASTENER 2" UNDER FRAME.
2. LOCATION SPECIFIED ON PLAN INDICATES APPROXIMATE CENTER OF GRATED SECTION OF BASIN IN LANDSCAPE AND CENTER OF GRATED SECTION IN SOFTSCAPE. COORDINATE FINAL LOCATION AND INSTALLATION IN LANDSCAPE AREAS WITH CONCRETE CONTRACTOR.
3. ALL STRUCTURES SHALL BE PROVIDED WITH HEAVY DUTY GRATE WITH BICYCLE BARS.
4. BEDDING AND BACKFILL SHALL BE COMPACTED CRUSHED ROCK PER SPECIFICATION SECTION 31 20 00.
5. DECK DRAIN SHOWN SCHEMATICALLY. CONSTRUCT PIPE AND FITTINGS SIMILAR TO THOSE SHOWN FOR AREA DRAIN.

1 AREA DRAIN (AD)/DECK DRAIN (DD)
NO SCALE



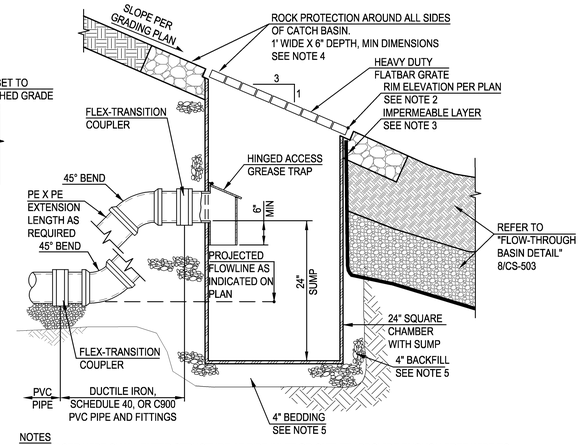
NOTES
1. TRACER WIRE SHALL ENTER STRUCTURE AT PIPE INLET OR OUTLET. PROVIDE ADEQUATE FREE WIRE TO EXTEND 24" ABOVE TOP OF GRATE TO FACILITATE TESTING. COIL WIRE AND SECURE WITH NON-CORROSIVE FASTENER 2" UNDER FRAME.
2. LOCATION SPECIFIED ON PLAN INDICATES CENTER OF GRATED SECTION OF BASIN, FACE OF CURB AT CENTER OF GRATED SECTION, OR INTERSECTION BETWEEN FACE OF CURBS.
3. ALL STRUCTURES SHALL BE PROVIDED WITH HEAVY DUTY GRATE WITH BICYCLE BARS EXCEPT STRUCTURES INDICATED ON PLANS REQUIRING ADA-APPROVED GRATE.

2 CATCH BASIN (CB)
NO SCALE



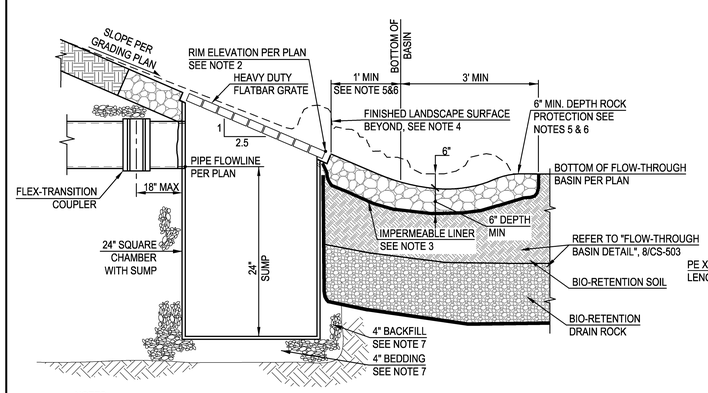
NOTES
1. TRACER WIRE SHALL ENTER STRUCTURE AT PIPE INLET OR OUTLET. PROVIDE ADEQUATE FREE WIRE TO EXTEND 24" ABOVE TOP OF GRATE TO FACILITATE TESTING. COIL WIRE AND SECURE WITH NON-CORROSIVE FASTENER 2" UNDER FRAME.
2. LOCATION SPECIFIED ON PLAN INDICATES CENTER OF GRATED SECTION OF BASIN, FACE OF CURB AT CENTER OF GRATED SECTION, OR INTERSECTION BETWEEN FACE OF CURBS.
3. ALL STRUCTURES SHALL BE PROVIDED WITH HEAVY DUTY ADA-APPROVED GRATE.
4. OUTLET LOCATION SHALL BE IN ACCORDANCE WITH CATCH BASIN ORIENTATION AS SHOWN ON PLANS.

3 DOUBLE CHAMBER CATCH BASIN (DCCB)
NO SCALE



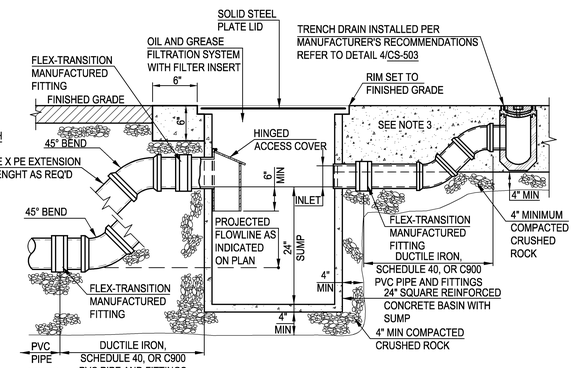
NOTES
1. TRACER WIRE SHALL ENTER STRUCTURE AT PIPE INLET OR OUTLET. PROVIDE ENOUGH FREE WIRE TO EXTEND 24" ABOVE TOP OF GRATE TO FACILITATE TESTING. COIL WIRE AND SECURE WITH NON-CORROSIVE FASTENER UNDER FRAME.
2. COORDINATES SHOWN ON PLAN REPRESENT MIDPOINT OF LOWER EDGE GRATED SECTION OF BASIN.
3. TERMINATE IMPERMEABLE LINER AT BOTTOM OF STRUCTURE GRATE (ALL SIDES).
4. ROCK PROTECTION MATERIAL IS 3" TO 6" RIVER ROCK PER SPECIFICATION SECTION 33 40 00.
5. BEDDING AND BACKFILL SHALL BE COMPACTED CRUSHED ROCK PER SPECIFICATION SECTION 31 20 00.

4 OVERFLOW CATCH BASIN (OFCB)
NO SCALE



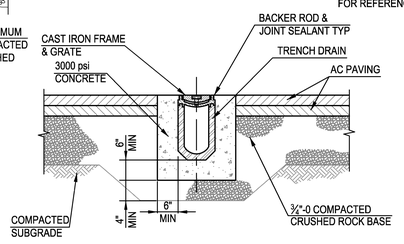
NOTES
1. TRACER WIRE SHALL ENTER STRUCTURE AT PIPE INLET OR OUTLET. PROVIDE ENOUGH FREE WIRE TO EXTEND 24" ABOVE TOP OF GRATE TO FACILITATE TESTING. COIL WIRE AND SECURE WITH NON-CORROSIVE FASTENER UNDER FRAME.
2. COORDINATES SHOWN ON PLAN REPRESENT MIDPOINT OF LOWER EDGE OF GRATED SECTION.
3. TERMINATE IMPERMEABLE LINER AT BOTTOM OF STRUCTURE GRATE (ALL SIDES) AND 2" BELOW FINISHED SURFACE ELEVATION AT EDGE OF ROCK PROTECTION.
4. TRANSITION LANDSCAPE MATERIAL SLOPE AT STRUCTURE FRAME TO 3H:1V MAXIMUM SLOPE WHERE ROCK PROTECTION MEETS LANDSCAPE MATERIALS.
5. EXTEND ROCK PROTECTION 3' MIN INTO BOTTOM OF FLOW-THROUGH BASIN. EXTEND ROCK PROTECTION COLLAR 1' MIN AROUND ALL SIDES OF STRUCTURE.
6. ROCK PROTECTION MATERIAL IS 3" TO 6" RIVER ROCK PER SPECIFICATION SECTION 33 40 00.
7. BEDDING AND BACKFILL SHALL BE COMPACTED CRUSHED ROCK PER SPECIFICATION SECTION 31 20 00.

5 OUTFALL CATCH BASIN (OCB)
NO SCALE



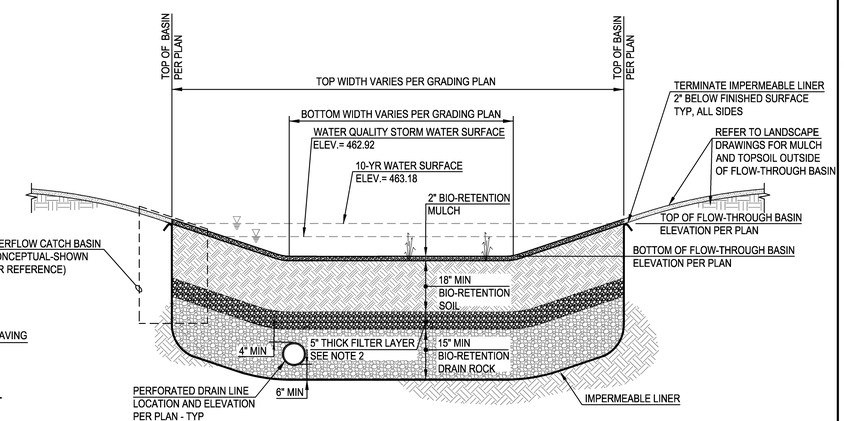
NOTES
1. TRACER WIRE SHALL ENTER STRUCTURE AT PIPE INLET OR OUTLET. PROVIDE ENOUGH FREE WIRE TO EXTEND 24" ABOVE TOP OF GRATE TO FACILITATE TESTING. COIL WIRE AND SECURE WITH NON-CORROSIVE FASTENER 2" UNDER FRAME.
2. LOCATION SPECIFIED ON PLAN INDICATES INTERSECTION OF TD ℄ AND ℄ OF CATCH BASIN STRUCTURE.

TRENCH DRAIN OUTLET CATCH BASIN
6
NO SCALE



NOTES
1. WRAP CONCRETE COLLAR AROUND AL SIDES OF TD

7 TRENCH DRAIN (TD)
NO SCALE



NOTES
1. BOTTOM OF FLOW-THROUGH BASIN ELEVATION REPRESENTS TOP OF 18" THICK BIO-RETENTION SOIL LAYER. WITH THE EXCEPTION OF NOTED BIO-RETENTION MULCH, NO MULCH SHALL BE PLACED IN THE BOTTOM OF THE FLOW-THROUGH BASIN.
2. 5" THICK FILTER LAYER CONSISTS OF 3" OF BIO-RETENTION FILTER SAND OVER 2" OF BIO-RETENTION FILTER GRAVEL.
3. REFER TO LANDSCAPE DRAWINGS FOR HORIZONTAL LAYOUT AND PLANTINGS.
4. REFER TO SPECIFICATION SECTION 31 20 00 FOR BIO-RETENTION MULCH, SOIL, FILTER MATERIALS, AND DRAIN ROCK.

8 FLOW-THROUGH BASIN
NO SCALE

Revisions:	Date

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EXPIRES 6/30/13

ARCHITECT/ENGINEERS:

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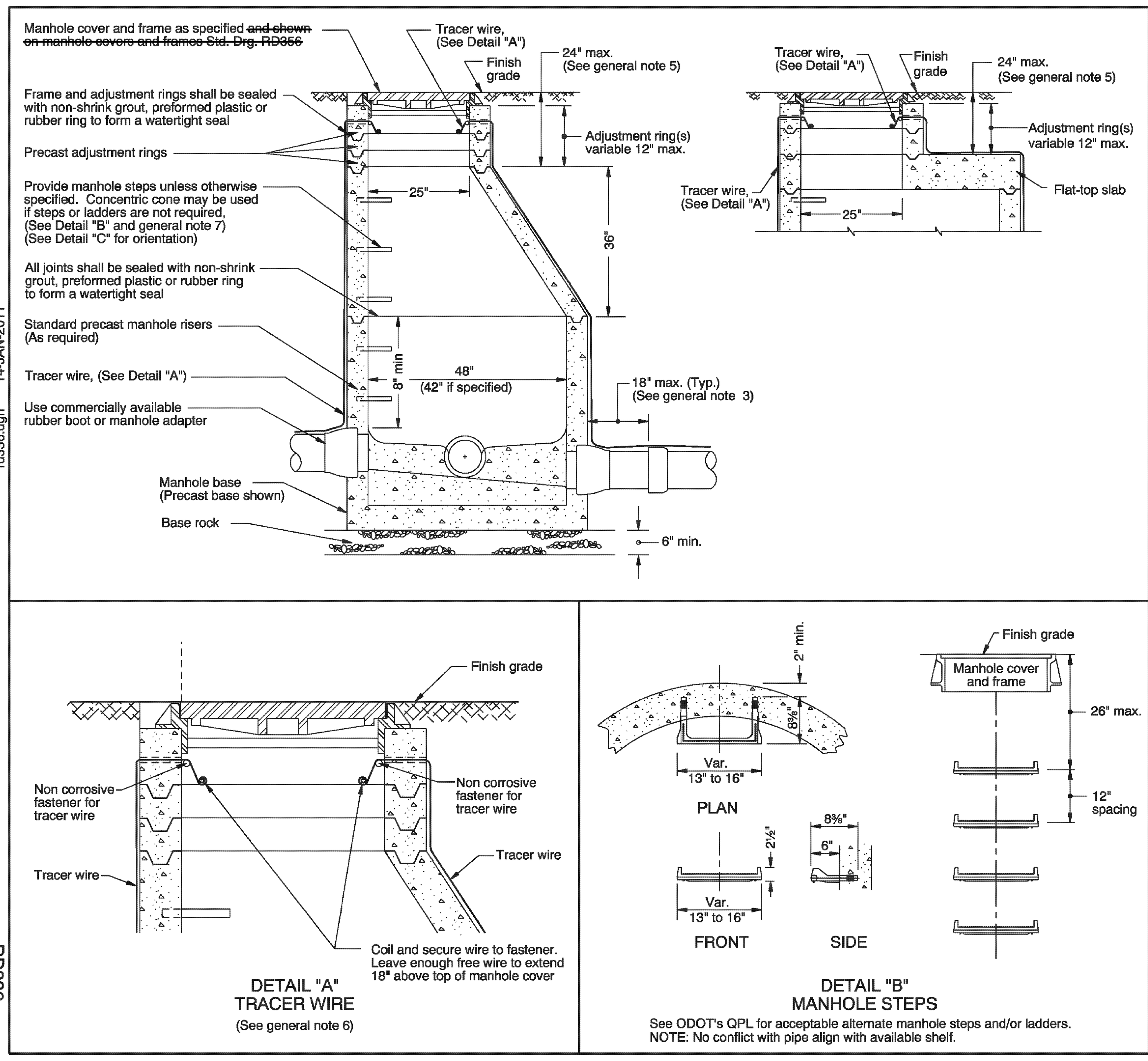
Drawing Title	CIVIL DETAILS
Approved: Project Director	
Project Title	SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD
Location	ROSEBURG, OREGON
Date	30 APR 2012
Checked	TLG
Drawn	JAH/CB
VA Project Number	653-322
Building Number	086
Sheet Number	CS-503

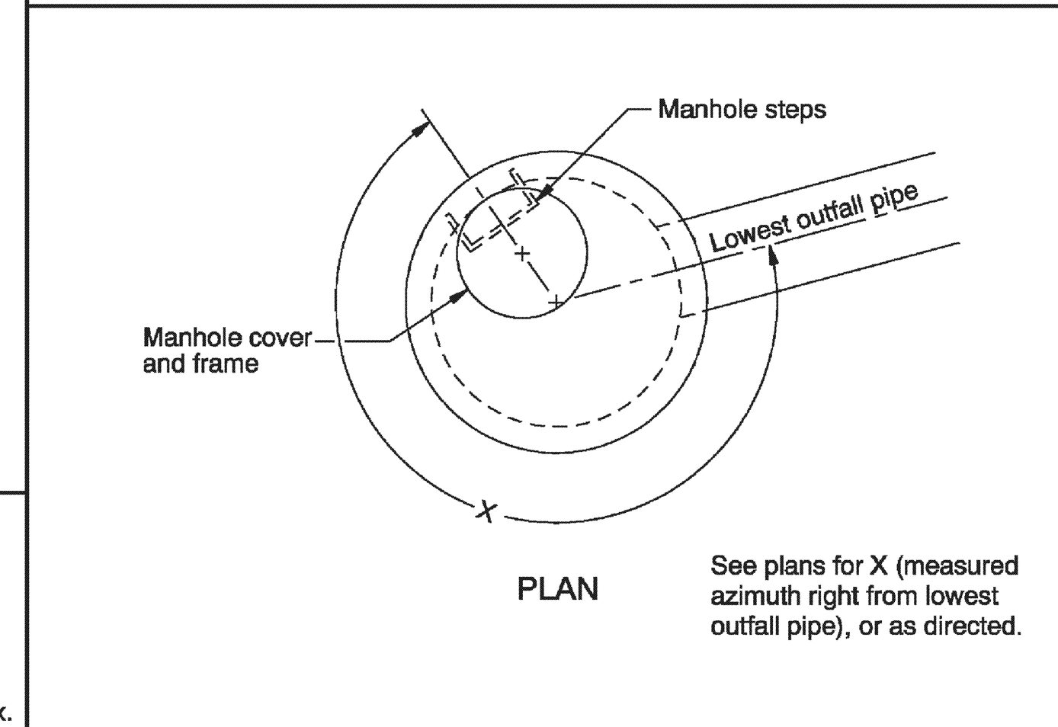
Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-8231



GENERAL NOTES FOR ALL DETAILS:

1. All precast sections shall conform to requirements of ASTM C478.
2. Standard precast manhole section diameter shall be 48". Use 42" if specified by the Engineer. Maximum pipe diameter 24".
3. All connecting pipes shall have a flexible, gasketted and unrestrained joint within 18" of manhole wall.
4. See Std. Drg. RD344 for manhole base section.
5. Adjust 24" maximum.
6. All connecting pipes shall have a tracer wire, or approved alternate.
7. Ladder with notched safety rail and removable extension is reqd. for manholes with depths between 24'-0" and 50'-0".



DETAIL "C"
CONE OR FLAT-TOP SLAB
AND MANHOLE STEPS ORIENTATION

CALC. BOOK NO. _ _ _ _ _ _ _ _ _ _ _ BASELINE REPORT DATE _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

~~NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications~~

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

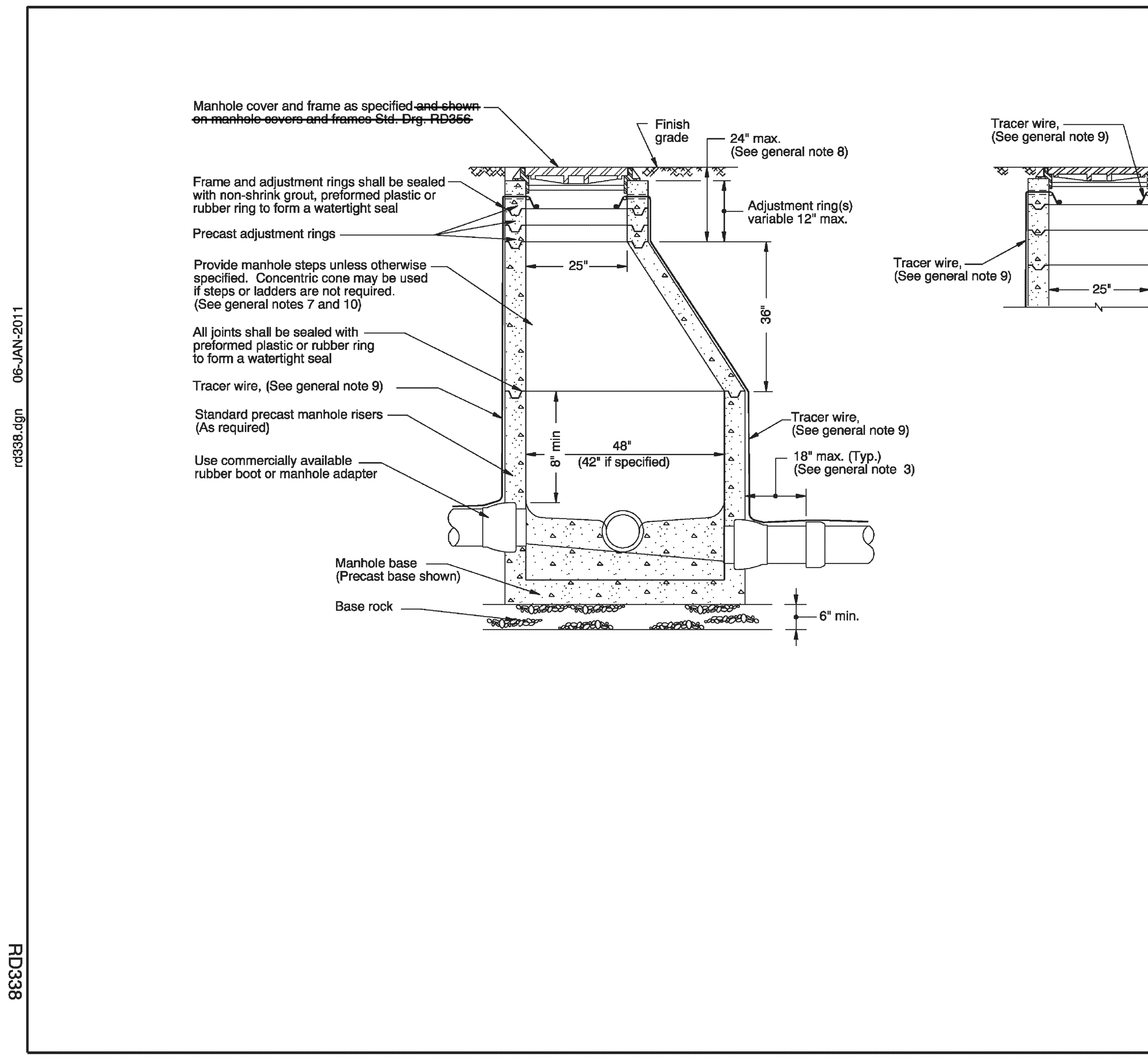
STANDARD STORM SEWER MANHOLE

2008

DATE	REVISION DESCRIPTION
06-2009	REVISED & ADDED NOTES
01-2011	REVISED & ADDED NOTES

Effective Date: December 1, 2011 - May 31, 2012 RD336

1 STANDARD STORM SEWER MANHOLE
NO SCALE



GENERAL NOTES FOR ALL DETAILS:

1. All precast sections shall conform to requirements of ASTM C478.
2. Standard precast manhole section diameter shall be 48". Use 42" if specified by the Engineer. Maximum pipe diameter 24".
3. All connecting pipes shall have a flexible, gasketted, and unrestrained joint within 18" of manhole wall.
4. See Std. Drg. RD344 for manhole base section.
5. ~~This detail limited to interior drop of 24". See Std. Drgs. RD350 or RD352 for drop manhole details for drops in excess of 24".~~
6. Use flat top for shallow manhole where directed. (See Std. Drg. RD342).
7. See Std. Drg. RD336 for manhole steps details, and cone or flat-top slab orientation.
8. Adjust 24" max.
9. See Std. Drg. RD336 for tracer wire details.
10. Ladder with notched safety rail and removable extension is reqd. for manholes with depths between 24'-0" and 50'-0".

CALC. BOOK NO. _ _ _ _ _ _ _ _ _ _ _ BASELINE REPORT DATE _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

~~NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications~~

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

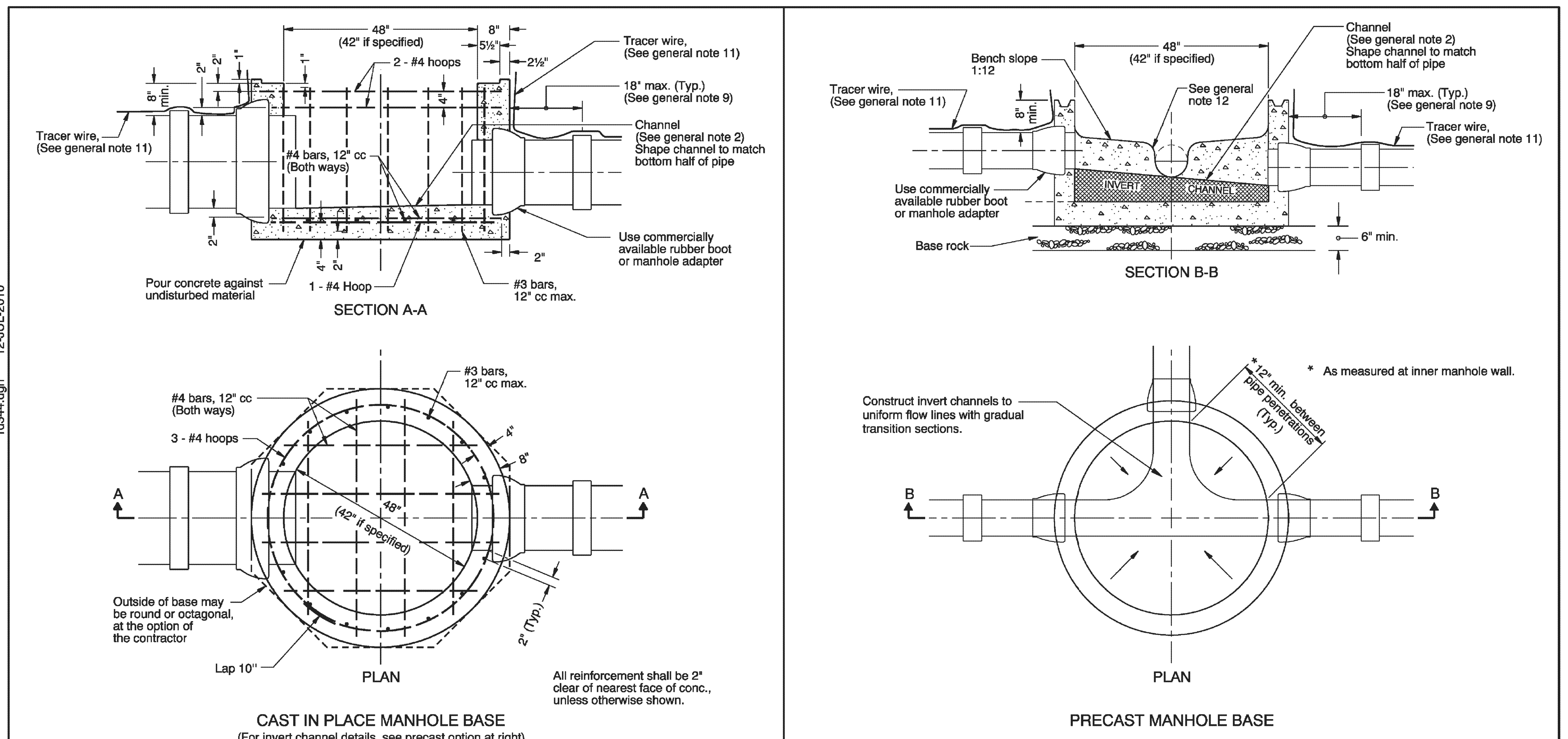
STANDARD SANITARY SEWER MANHOLE

2008

DATE	REVISION DESCRIPTION
01-2011	REVISED & ADDED NOTES

Effective Date: December 1, 2011 - May 31, 2012 RD338

2 STANDARD SANITARY SEWER MANHOLE
NO SCALE



GENERAL NOTES FOR ALL DETAILS:

1. All concrete shall be commercial grade concrete.
2. Channels shall be constructed to provide smooth slopes and radii to outlet pipe.
3. Bases may be precast or cast in place.
4. This manhole base section shall be used for pipe sizes up to 24".
5. Use on 42" and 48" diameter manhole.
6. Extend pipe into manhole and grout smooth. Pipe(s) may extend 2" max. beyond the interior manhole wall.
7. Location, elevation, and number of pipe(s) varies.
8. All precast sections shall conform to the requirements of ASTM C478.
9. All connecting pipes shall have a flexible, gasketted and unrestrained joint within 18" of manhole wall.
10. See Std. Drg. RD336 for manhole steps details.
11. See Std. Drg. RD336 for tracer wire details.
12. At spring line of pipe, extend channel up to crown line on 12:1 batter.

CALC. BOOK NO. _ _ N/A _ _ _ _ _ _ BASELINE REPORT DATE _ _ 01-JUL-2010 _ _ _ _ _

~~NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications~~

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

STANDARD MANHOLE BASE SECTION

2008

DATE	REVISION DESCRIPTION
07-2010	REVISED NOTES

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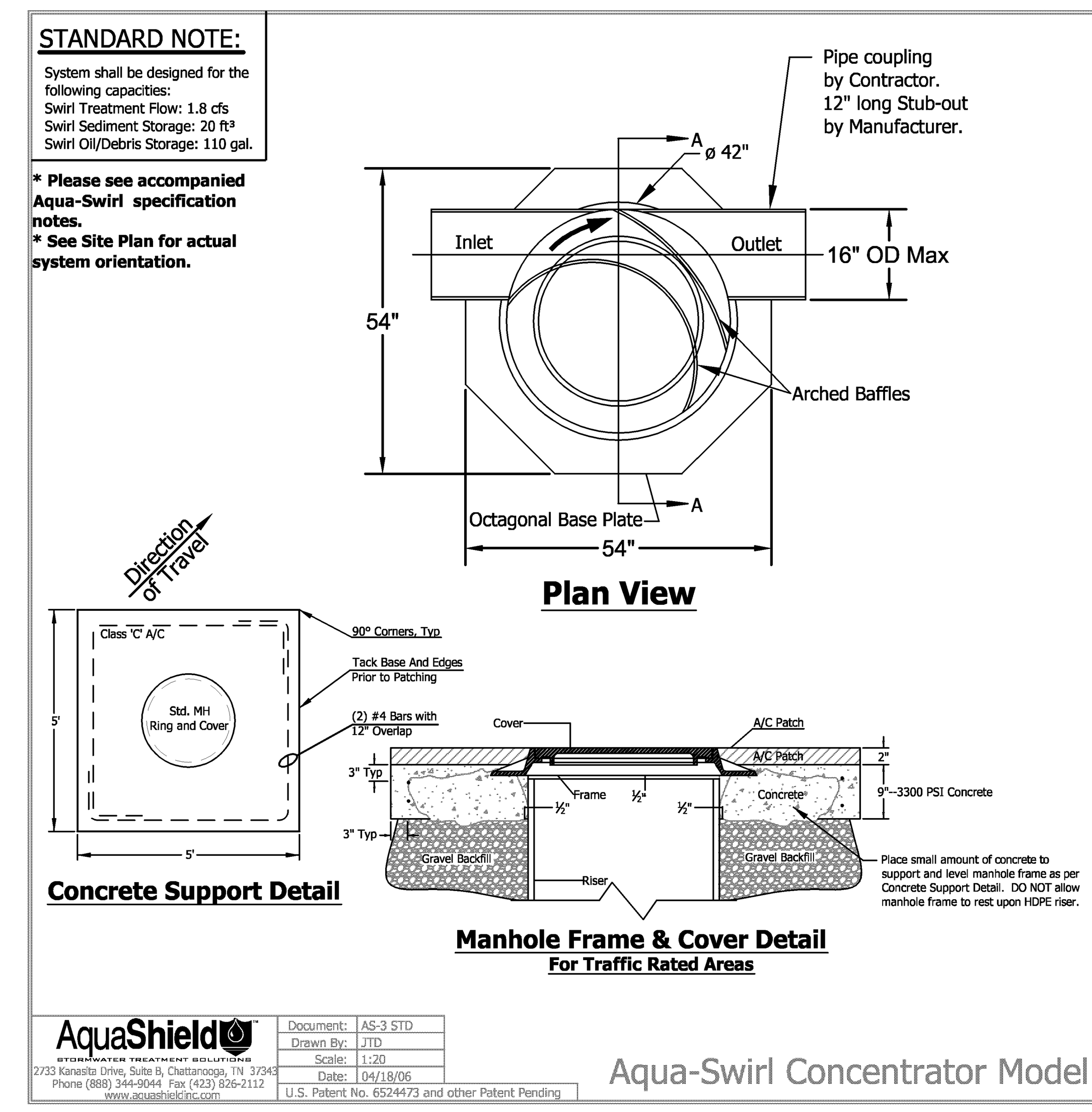
Effective Date: December 1, 2011 - May 31, 2012 RD344

3 STANDARD MANHOLE BASE SECTION
NO SCALE



4 STORMWATER TREATMENT STRUCTURE
NO SCALE

Revisions:	Date

CONSULTANTS:

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REGISTERED PROFESSIONAL ENGINEER 65619PE
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EXPIRES 6/30/13

ARCHITECT/ENGINEERS:

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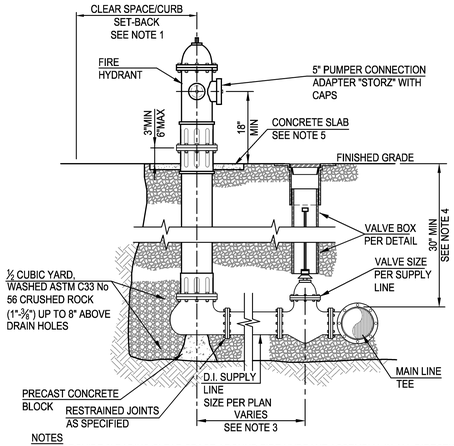
541.521.2477 / Tina.Ely@comcast.net

Drawing Title	Project Title	VA Project Number
CIVIL DETAILS	SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD	653-322
		Building Number: 086
Approved: Project Director	Location: ROSEBURG, OREGON	Sheet Number: CS-504
	Date: 30 APR 2012 · Checked: TLG · Drawn: JAH/CB	

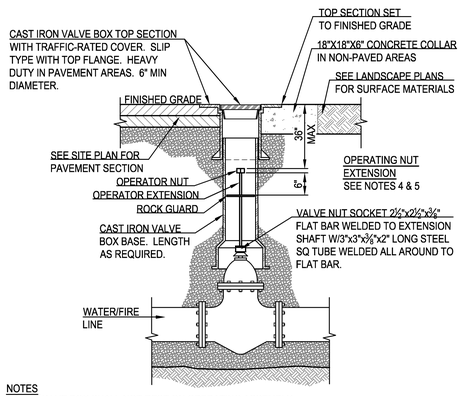
Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231



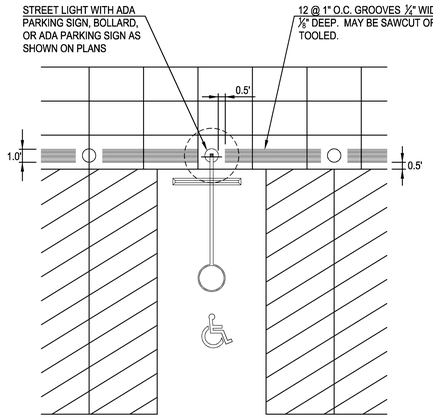
NOTES
1. PROVIDE 3' RADIUS CLEAR SPACE AROUND FIRE HYDRANT ASSEMBLY, IN ALL DIRECTIONS. VERIFY CLEAR SPACE RADIUS AND SET-BACK FROM CURB REQUIREMENTS WITH ROSEBURG FIRE MARSHAL.
2. TRACER WIRE SHALL ENTER VALVE BOX BASE CLEAR OF OPERATOR NUT AND/OR EXTENSION. PROVIDE ENOUGH FREE WIRE TO EXTEND 24" ABOVE FINISHED GRADE TO FACILITATE TESTING. VERIFY FREE END OF WIRE IS WITHIN EASY REACH OF VALVE BOX OPENING.
3. FOR SUPPLY LINE RUN LONGER THAN 10 FEET AND/OR CONTAINING A HORIZONTAL BEND, INSTALL TRACER WIRE BETWEEN HYDRANT AND VALVE. PROVIDE ENOUGH FREE WIRE AT HYDRANT TO EXTEND 24" ABOVE FINISHED GRADE TO FACILITATE TESTING. WRAP WIRE AROUND HYDRANT BASE AT FINISHED GRADE.
4. 36" MINIMUM FOR FIRE SERVICE UNDER AREAS TRAFFICKED BY VEHICLES (NFPA 24, 10-4).
5. SET HYDRANT ON 15" MINIMUM SQUARE CONCRETE SLAB, MINIMUM 4" THICK.

1 FIRE HYDRANT ASSEMBLY
NO SCALE

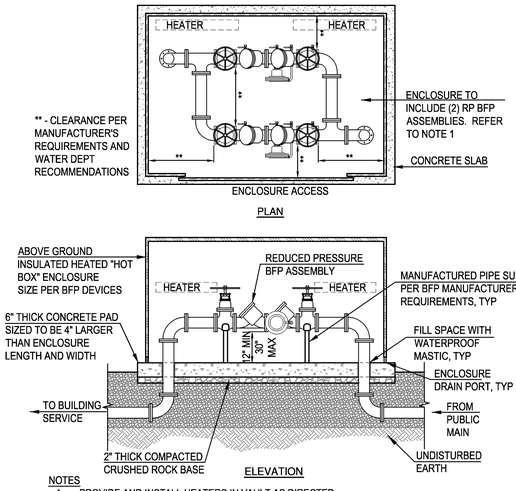


NOTES
1. VALVE BOX SHALL NOT REST ON OPERATING ASSEMBLY.
2. CENTER VALVE BOX ON AXIS OF OPERATOR NUT.
3. TRACER WIRE SHALL ENTER VALVE BOX BASE CLEAR OF OPERATOR NUT AND/OR EXTENSION. PROVIDE ENOUGH FREE WIRE TO EXTEND 24" ABOVE FINISHED GRADE TO FACILITATE TESTING. VERIFY FREE END OF WIRE IS WITHIN EASY REACH OF VALVE BOX OPENING.
4. OPERATOR EXTENSION REQUIRED WHEN VALVE NUT IS DEEPER THAN 4' FROM FINISHED GRADE.
5. OPERATOR NUT EXTENSION: OPERATOR NUT: 2" SQUARE, WELDED TO PIPE SHAFT END. OPERATOR EXTENSION: 1½" SCH 80 PIPE SHAFT, LENGTH AS REQ'D. ROCK GUARD: ½" STEEL PLATE, WELDED TO EXTENSION, DIAMETER= VALVE BOX EXTENSION INSIDE DIAMETER MINUS ½". HOT DIP GALVANIZE UNIT AFTER FABRICATION.

2 VALVE BOX WITH OPERATOR EXTENSION ASSEMBLY
NO SCALE

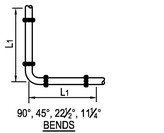


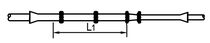
3 TACTILE GROOVES
NO SCALE

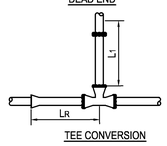


NOTES
1. PROVIDE AND INSTALL HEATERS IN VAULT AS DIRECTED.
2. INCREASE ENCLOSURE SIZE AS REQ'D TO ACCOMMODATE (2) REDUCED PRESSURE PACKFLOW PREVENTERS IN PARALLEL.
3. TRACER WIRE SHALL EXTEND INTO VAULT AND TERMINATE. PROVIDE ADEQUATE FREE WIRE TO EXTEND 24" INSIDE OF VAULT WALL PENETRATION. COIL WIRE AND SECURE WITH NON-CORROSIVE FASTENER ABOVE PIPE PENETRATION.
4. BACKFLOW ASSEMBLIES SHALL HAVE WATERTIGHT PLUGS OR CAPS INSTALLED ON ALL TEST COCKS.

4 REDUCED PRESSURE BACKFLOW PREVENTER AND ENCLOSURE
NO SCALE







LENGTH (L1) OF PVC PIPE TO BE RESTRAINED (FEET)

DIAMETER	HORIZONTAL BEND				DEAD END	REDUCER (RESTRAINED LENGTH FOR LARGE DIAMETER			
	90°	45°	22½°	11¼°		4"	6"	8"	10"	12"
3"	12	5	3	2	37	15	42	67	87	107
4"	14	6	3	2	45	--	33	60	81	103
6"	20	9	4	2	63	--	--	35	61	86
8"	26	11	6	3	83	--	--	--	34	63
10"	31	13	7	4	100	--	--	--	--	35

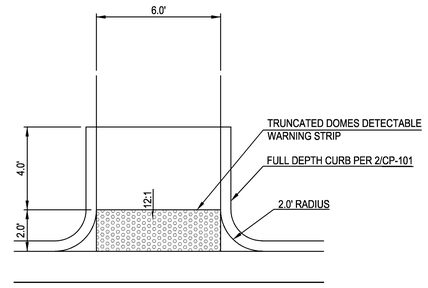
TEE CONFIGURATIONS (RESTRAINT LENGTH FOR BRANCH)

BRANCH PIPE DIAMETER	LR (feet)								
	0	2	4	6	8	10	12	14	16	18
3"	36	17	1	1	1	1	1	1	1	1
4"	44	25	6	1	1	1	1	1	1	1
6"	62	42	23	4	1	1	1	1	1	1
8"	81	62	42	23	4	1	1	1	1	1
10"	97	78	59	39	20	1	1	1	1	1

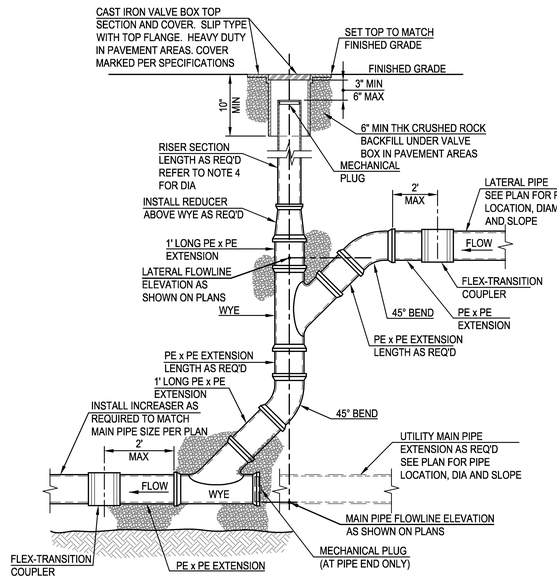
LR IS THE MINIMUM LENGTH IN EITHER DIRECTION FROM TEE TO NEAREST ADJACENT JOINT.

NOTES
1. ALL JOINTS WITHIN THE LENGTH "L1" FROM THE TABLES, SHALL BE RESTRAINED.
2. THE JOINT RESTRAINT LENGTHS CALCULATED ARE FOR FITTINGS USED TO CHANGE PIPE HORIZONTAL ALIGNMENT ONLY.
3. IF AN UNANTICIPATED NEED FOR JOINT RESTRAINT ARISES TO CHANGE THE VERTICAL ALIGNMENT OF THE PIPE, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER.
4. THE SMALL DIAMETER SIDE OF A REDUCER DOES NOT REQUIRE RESTRAINT IF THE LARGE DIAMETER SIDE IS PROPERLY RESTRAINED.
5. RESTRAINED LENGTHS LISTED IN THE TABLES ARE BASED ON EBAA INC. RESTRAINED LENGTH CALCULATION SOFTWARE PROGRAM, VERSION 3.1, WITH THE FOLLOWING PROGRAM CONSTRAINTS:
   - "GC" (CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES) SOIL TYPE
   - TRENCH TYPE 5
   - TEST PRESSURE OF 150 PSI
   - SAFETY FACTOR 2:1
   - MINIMUM OF 3 FEET OF COVER
6. ANY REDUCTION OF THESE VALUES AS A RESULT OF UNFORESEEN FIELD CONDITIONS ENCOUNTERED SHALL BE BASED ON THE APPROPRIATE EVALUATION AND RECOMMENDATION BY THE ENGINEER AND WITH APPROVAL BY THE CITY.
7. WHEN ORGANIC OR CLAY TYPE SOILS ARE BEING USED FOR BACKFILL, GRANULAR BACKFILL MUST BE USED FOR BEDDING AND BACKFILL TO A HEIGHT OF 6 INCHES OVER THE TOP OF THE PIPE BEFORE OTHER SOILS ARE PLACED.
8. FOR 2" DIAMETER PIPE USE RESTRAINT LENGTHS SHOWN FOR 3" DIAMETER PIPE.

5 MECHANICAL JOINT RESTRAINT SPECIFICATIONS
NO SCALE

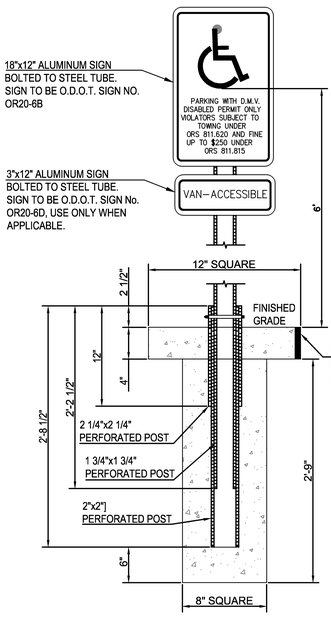


6 CURB RETURN SIDEWALK ACCESS RAMP
NO SCALE



NOTES
1. WHERE VERTICAL DROP BETWEEN FLOW LINES EXCEEDS 5 FEET, PIPE TO BE C900 PVC AND FITTINGS TO BE DUCTILE IRON.
2. DIAMETER OF ALL PIPE AND FITTINGS TO MATCH LATERAL DIAMETER UNLESS NOTED OTHERWISE.
3. TRACER WIRE SHALL ENTER STRUCTURE WITH RISER PIPE. PROVIDE ENOUGH FREE WIRE TO EXTEND 24" ABOVE FINISHED GRADE TO FACILITATE TESTING. VERIFY FREE END OF WIRE IS WITHIN EASY REACH OF OPENING IN TOP SECTION.
4. RISER PIPE SIZE:
   4", 6", & 8" DIA MAIN - 4" DIA RISER PIPE
   10" DIA & LARGER MAIN - 6" DIA RISER PIPE

7 VERTICAL TRANSITION CLEANOUT
NO SCALE



NOTES
1. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
2. LOCATE FACE OF SIGN 3' FROM FACE OF CURB.

8 ACCESSIBILITY SIGN AND BASE
NO SCALE

Revisions:	Date

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REGISTERED PROFESSIONAL ENGINEER
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OREGON
JAN. 10, 2006
TINA L. GUARD
EXPIRES 6/30/13

ARCHITECT/ENGINEERS:

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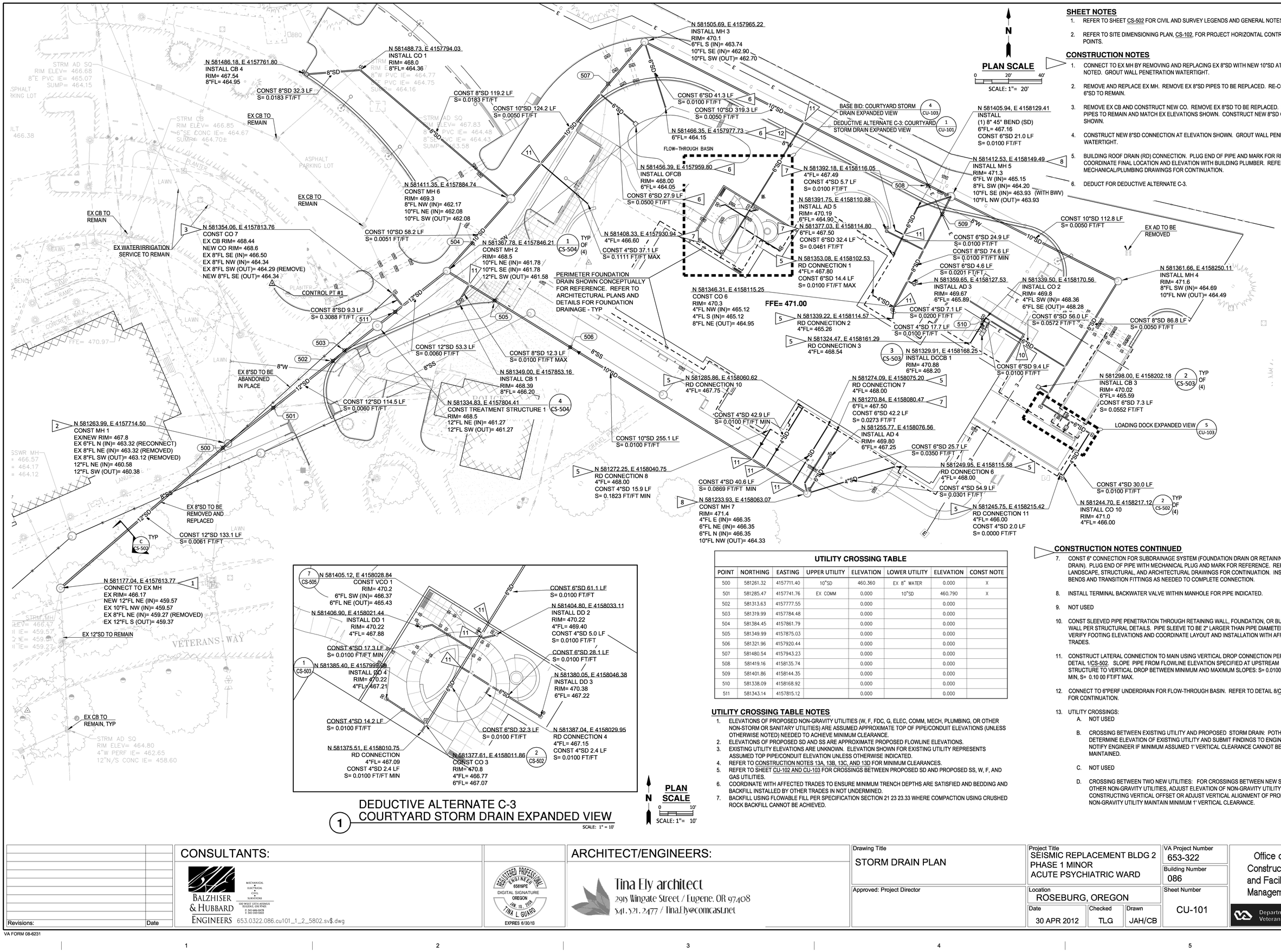
Drawing Title	CIVIL DETAILS
Approved: Project Director	
Project Title	SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD
Location	ROSEBURG, OREGON
Date	30 APR 2012
Checked	TLG
Drawn	JAH/CB
VA Project Number	653-322
Building Number	086
Sheet Number	CS-505

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231



SHEET NOTES

1. REFER TO SHEET CS-502 FOR CIVIL AND SURVEY LEGENDS AND GENERAL NOTES.
2. REFER TO SITE DIMENSIONING PLAN, CS-102, FOR PROJECT HORIZONTAL CONTROL POINTS.

CONSTRUCTION NOTES

1. CONNECT TO EX MH BY REMOVING AND REPLACING EX 8"SD WITH NEW 10"SD AT ELEVATION NOTED. GROUT WALL PENETRATION WATERTIGHT.
2. REMOVE AND REPLACE EX MH. REMOVE EX 8"SD PIPES TO BE REPLACED. RE-CONNECT EX 6"SD TO REMAIN.
3. REMOVE EX CB AND CONSTRUCT NEW CO. REMOVE EX 8"SD TO BE REPLACED. CONNECT EX PIPES TO REMAIN AND MATCH EX ELEVATIONS SHOWN. CONSTRUCT NEW 8"SD OUTLET AS SHOWN.
4. CONSTRUCT NEW 8"SD CONNECTION AT ELEVATION SHOWN. GROUT WALL PENETRATION WATERTIGHT.
5. BUILDING ROOF DRAIN (RD) CONNECTION. PLUG END OF PIPE AND MARK FOR REFERENCE. COORDINATE FINAL LOCATION AND ELEVATION WITH BUILDING PLUMBER. REFER TO MECHANICAL/PLUMBING DRAWINGS FOR CONTINUATION.
6. DEDUCT FOR DEDUCTIVE ALTERNATE C-3.

DEDUCTIVE ALTERNATE C-3 COURTYARD STORM DRAIN EXPANDED VIEW

SCALE: 1" = 10'

N PLAN SCALE 0 10' SCALE: 1"= 10'

UTILITY CROSSING TABLE

POINT	NORTHING	EASTING	UPPER UTILITY	ELEVATION	LOWER UTILITY	ELEVATION	CONST NOTE
500	581261.32	4157711.40	10"SD	460.360	EX 8" WATER	0.000	X
501	581285.47	4157741.76	EX COMM	0.000	10"SD	460.790	X
502	581313.63	4157777.55		0.000		0.000	
503	581319.99	4157784.48		0.000		0.000	
504	581384.45	4157861.79		0.000		0.000	
505	581349.99	4157875.03		0.000		0.000	
506	581321.96	4157920.44		0.000		0.000	
507	581480.54	4157943.23		0.000		0.000	
508	581419.16	4158135.74		0.000		0.000	
509	581401.86	4158144.35		0.000		0.000	
510	581338.09	4158168.92		0.000		0.000	
511	581343.14	4157815.12		0.000		0.000	

UTILITY CROSSING TABLE NOTES

1. ELEVATIONS OF PROPOSED NON-GRAVITY UTILITIES (W, F, FDC, G, ELEC, COMM, MECH, PLUMBING, OR OTHER NON-STORM OR SANITARY UTILITIES) ARE ASSUMED APPROXIMATE TOP OF PIPE/CONDUIT ELEVATIONS (UNLESS OTHERWISE NOTED) NEEDED TO ACHIEVE MINIMUM CLEARANCE.
2. ELEVATIONS OF PROPOSED SD AND SS ARE APPROXIMATE PROPOSED FLOWLINE ELEVATIONS.
3. EXISTING UTILITY ELEVATIONS ARE UNKNOWN. ELEVATION SHOWN FOR EXISTING UTILITY REPRESENTS ASSUMED TOP PIPE/CONDUIT ELEVATION UNLESS OTHERWISE INDICATED.
4. REFER TO CONSTRUCTION NOTES 13A, 13B, 13C, AND 13D FOR MINIMUM CLEARANCES.
5. REFER TO SHEET CU-102 AND CU-103 FOR CROSSINGS BETWEEN PROPOSED SD AND PROPOSED SS, W, F, AND GAS UTILITIES.
6. COORDINATE WITH AFFECTED TRADES TO ENSURE MINIMUM TRENCH DEPTHS ARE SATISFIED AND BEDDING AND BACKFILL INSTALLED BY OTHER TRADES IN NOT UNDERMINED.
7. BACKFILL USING FLOWABLE FILL PER SPECIFICATION SECTION 21 23 23.33 WHERE COMPACTION USING CRUSHED ROCK BACKFILL CANNOT BE ACHIEVED.

CONSTRUCTION NOTES CONTINUED

7. CONST 6" CONNECTION FOR SUBDRAINAGE SYSTEM (FOUNDATION DRAIN OR RETAINING WALL DRAIN). PLUG END OF PIPE WITH MECHANICAL PLUG AND MARK FOR REFERENCE. REFER TO LANDSCAPE, STRUCTURAL, AND ARCHITECTURAL DRAWINGS FOR CONTINUATION. INSTALL BENDS AND TRANSITION FITTINGS AS NEEDED TO COMPLETE CONNECTION.
8. INSTALL TERMINAL BACKWATER VALVE WITHIN MANHOLE FOR PIPE INDICATED.
9. NOT USED
10. CONST SLEEVED PIPE PENETRATION THROUGH RETAINING WALL, FOUNDATION, OR BUILDING WALL PER STRUCTURAL DETAILS. PIPE SLEEVE TO BE 2" LARGER THAN PIPE DIAMETER. VERIFY FOOTING ELEVATIONS AND COORDINATE LAYOUT AND INSTALLATION WITH AFFECTED TRADES.
11. CONSTRUCT LATERAL CONNECTION TO MAIN USING VERTICAL DROP CONNECTION PER DETAIL 1/CS-502. SLOPE PIPE FROM FLOWLINE ELEVATION SPECIFIED AT UPSTREAM STRUCTURE TO VERTICAL DROP BETWEEN MINIMUM AND MAXIMUM SLOPES: S= 0.01000 FT/FT MIN, S= 0.10 00 FT/FT MAX.
12. CONNECT TO 6"PERF UNDERDRAIN FOR FLOW-THROUGH BASIN. REFER TO DETAIL 8/CS-503 FOR CONTINUATION.
13. UTILITY CROSSINGS:
    - A. NOT USED
    - B. CROSSING BETWEEN EXISTING UTILITY AND PROPOSED STORM DRAIN: POTHOLE TO DETERMINE ELEVATION OF EXISTING UTILITY AND SUBMIT FINDINGS TO ENGINEER. NOTIFY ENGINEER IF MINIMUM ASSUMED 1' VERTICAL CLEARANCE CANNOT BE MAINTAINED.
    - C. NOT USED
    - D. CROSSING BETWEEN TWO NEW UTILITIES: FOR CROSSINGS BETWEEN NEW SD AND OTHER NON-GRAVITY UTILITIES, ADJUST ELEVATION OF NON-GRAVITY UTILITY BY CONSTRUCTING VERTICAL OFFSET OR ADJUST VERTICAL ALIGNMENT OF PROPOSED NON-GRAVITY UTILITY MAINTAIN MINIMUM 1' VERTICAL CLEARANCE.

Revisions:	Date

CONSULTANTS:

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REGISTERED PROFESSIONAL ENGINEER 85619PE DIGITAL SIGNATURE OREGON JAN. 10, 2006 TINA L. GUARD
EXPIRES 6/30/13

ARCHITECT/ENGINEERS:

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Drawing Title	STORM DRAIN PLAN
Approved: Project Director	
Project Title	SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD
Location	ROSEBURG, OREGON
Date	30 APR 2012
Checked	TLG
Drawn	JAH/CB
VA Project Number	653-322
Building Number	086
Sheet Number	CU-101

Office of Construction and Facilities Management
Department of Veterans Affairs

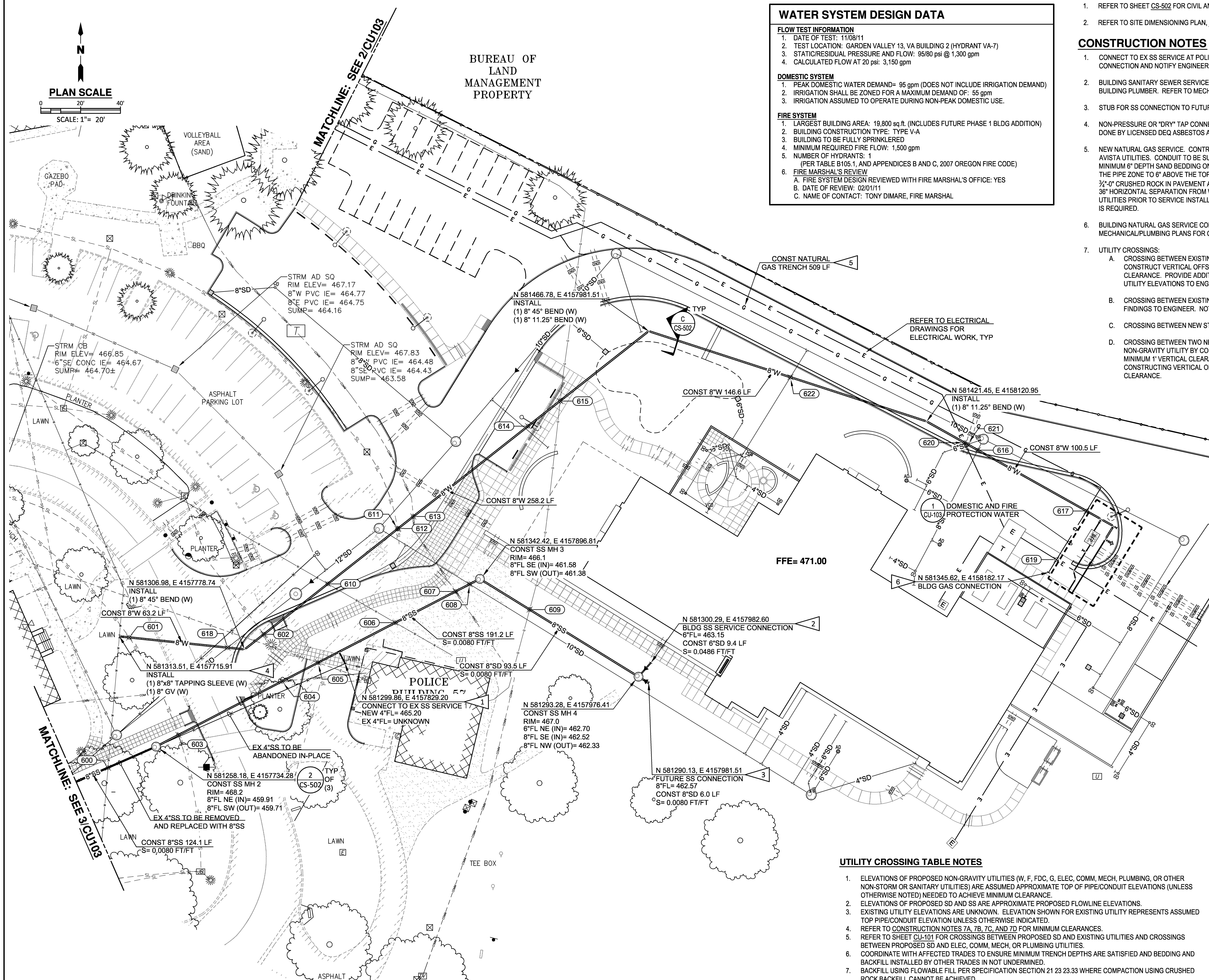
VA FORM 08-6231

WATER SYSTEM DESIGN DATA

FLOW TEST INFORMATION
1. DATE OF TEST: 11/08/11
2. TEST LOCATION: GARDEN VALLEY 13, VA BUILDING 2 (HYDRANT VA-7)
3. STATIC/RESIDUAL PRESSURE AND FLOW: 95/80 psi @ 1,300 gpm
4. CALCULATED FLOW AT 20 psi: 3,150 gpm

DOMESTIC SYSTEM
1. PEAK DOMESTIC WATER DEMAND= 95 gpm (DOES NOT INCLUDE IRRIGATION DEMAND)
2. IRRIGATION SHALL BE ZONED FOR A MAXIMUM DEMAND OF: 55 gpm
3. IRRIGATION ASSUMED TO OPERATE DURING NON-PEAK DOMESTIC USE.

FIRE SYSTEM
1. LARGEST BUILDING AREA: 19,800 sq.ft. (INCLUDES FUTURE PHASE 1 BLDG ADDITION)
2. BUILDING CONSTRUCTION TYPE: TYPE V-A
3. BUILDING TO BE FULLY SPRINKLERED
4. MINIMUM REQUIRED FIRE FLOW: 1,500 gpm
5. NUMBER OF HYDRANTS: 1
   (PER TABLE B105.1, AND APPENDICES B AND C, 2007 OREGON FIRE CODE)
6. FIRE MARSHAL'S REVIEW
   A. FIRE SYSTEM DESIGN REVIEWED WITH FIRE MARSHAL'S OFFICE: YES
   B. DATE OF REVIEW: 02/01/11
   C. NAME OF CONTACT: TONY DIMARE, FIRE MARSHAL



SHEET NOTES

1. REFER TO SHEET CS-502 FOR CIVIL AND SURVEY LEGENDS AND GENERAL NOTES.
2. REFER TO SITE DIMENSIONING PLAN, CS-102, FOR PROJECT HORIZONTAL CONTROL POINTS.

CONSTRUCTION NOTES

1. CONNECT TO EX SS SERVICE AT POLICE BUILDING. CONTRACTOR TO POTHOLE EX SS SEWER SERVICE TO VERIFY ELEVATIONS 1 WEEK PRIOR TO CONNECTION AND NOTIFY ENGINEER IF ELEVATION IS LOWER THAN NEW FL SHOWN ON THE PLANS.
2. BUILDING SANITARY SEWER SERVICE CONNECTION. PLUG END OF PIPE AND MARK FOR REFERENCE. COORDINATE FINAL LOCATION AND ELEVATION WITH BUILDING PLUMBER. REFER TO MECHANICAL/PLUMBING PLANS FOR CONTINUATION.
3. STUB FOR SS CONNECTION TO FUTURE PHASE.
4. NON-PRESSURE OR "DRY" TAP CONNECTION TO EX PRIVATE 8 INCH AC WATER LINE. COORDINATE WITH OWNER FOR UTILITY SHUTDOWN. ALL WORK TO BE DONE BY LICENSED DEQ ASBESTOS ABATEMENT CONTRACTOR.
5. NEW NATURAL GAS SERVICE. CONTRACTOR TO PROVIDE TRENCHING AND BACKFILL AND COORDINATE WITH AVISTA UTILITIES FOR CONDUIT INSTALLATION BY AVISTA UTILITIES. CONDUIT TO BE SUPPLIED BY AVISTA UTILITIES. TRENCH MUST HAVE A MINIMUM WIDTH OF 12" AND A MINIMUM DEPTH OF 36", INCLUDING A MINIMUM 6" DEPTH SAND BEDDING ON BOTTOM OF TRENCH. TRENCH BOTTOM MUST BE FREE OF ROCK AND DEBRIS. SAND SHALL BE USED TO BACKFILL IN THE PIPE ZONE TO 6" ABOVE THE TOP OF THE CONDUIT. TRENCH BACKFILL ABOVE THE PIPE ZONE SHALL BE NATIVE MATERIAL IN LANDSCAPED AREAS AND ¾"-0" CRUSHED ROCK IN PAVEMENT AREAS. GAS SERVICE MUST MAINTAIN 12" MINIMUM HORIZONTAL AND VERTICAL SEPARATION FROM OTHER UTILITIES AND 36" HORIZONTAL SEPARATION FROM WATER LINES AND ELECTRIC LINES. CONTRACTOR MUST COMPLETE AND FAX IN GAS SERVICE APPLICATION TO AVISTA UTILITIES PRIOR TO SERVICE INSTALLATION (6 WEEKS MINIMUM). CONTRACTOR TO NOTIFY AVISTA UTILITIES AT LEAST 3 DAYS BEFORE METER INSTALLATION IS REQUIRED.
6. BUILDING NATURAL GAS SERVICE CONNECTION. COORDINATE FINAL LOCATION AND ELEVATION WITH BUILDING PLUMBER AND AVISTA UTILITIES. REFER TO MECHANICAL/PLUMBING PLANS FOR CONTINUATION.
7. UTILITY CROSSINGS:
   A. CROSSING BETWEEN EXISTING UTILITY AND PROPOSED W, F, FDC , OR G LINE: POTHOLE TO DETERMINE ELEVATION OF EXISTING UTILITY. CONSTRUCT VERTICAL OFFSET OR ADJUST VERTICAL ALIGNMENT OF PROPOSED WATER OR FDC LINE AS NEEDED TO MAINTAIN MINIMUM 1' VERTICAL CLEARANCE. PROVIDE ADDITIONAL FITTINGS AS NEEDED TO COMPLETE VERTICAL ADJUSTMENTS. SUBMIT EXISTING FIELD-VERIFIED AND PROPOSED UTILITY ELEVATIONS TO ENGINEER PRIOR TO CONSTRUCTION.
   B. CROSSING BETWEEN EXISTING UTILITY AND PROPOSED SANITARY SEWER: POTHOLE TO DETERMINE ELEVATION OF EXISTING UTILITY AND SUBMIT FINDINGS TO ENGINEER. NOTIFY ENGINEER IF MINIMUM ASSUMED 1' VERTICAL CLEARANCE CANNOT BE MAINTAINED.
   C. CROSSING BETWEEN NEW STORM AND NEW SANITARY SEWER: PROVIDE MINIMUM CLEARANCE BASED ON ELEVATIONS SHOWN.
   D. CROSSING BETWEEN TWO NEW UTILITIES: FOR CROSSINGS BETWEEN NEW SS AND OTHER NON-GRAVITY UTILITIES, ADJUST ELEVATION OF NON-GRAVITY UTILITY BY CONSTRUCTING VERTICAL OFFSET OR ADJUST VERTICAL ALIGNMENT OF PROPOSED NON-GRAVITY UTILITY MAINTAIN MINIMUM 1' VERTICAL CLEARANCE. FOR CROSSINGS BETWEEN TWO NEW NON-GRAVITY UTILITIES, ADJUST ELEVATION OF ONE OR BOTH UTILITIES BY CONSTRUCTING VERTICAL OFFSET OR ADJUSTING VERTICAL ALIGNMENT OF PROPOSED NON-GRAVITY UTILITY MAINTAIN MINIMUM 1' VERTICAL CLEARANCE.

UTILITY CROSSING TABLE

POINT	NORTHING	EASTING	UPPER UTILITY	ELEVATION	LOWER UTILITY	ELEVATION	CONST NOTE
600	581247.61	4157710.22	EX WATER	464.60	8"SS	459.50	7A
601	581313.00	4157720.83	EX ST LITE	466.20	8"W	464.70	7A
602	581314.56	4157788.36	EX ST LITE	467.00	8"W	465.50	7A
603	581264.00	4157745.52	EX ST LITE	466.70	8"SS	460.01	7A
604	581290.97	4157797.56	EX COMM	467.00	8"SS	460.48	7A
605	581300.33	4157815.62	EX PWR	467.50	8"SS	460.64	7A
606	581320.41	4157854.35	EX W	467.00	8"SS	460.99	7A
607	581336.07	4157884.57	EX COMM	467.00	8"SS	461.26	7A
608	581339.73	4157891.64	10"SD	462.31	8"SS	461.34	7A
609	581327.00	4157921.79	EX G	467.00	8"SS	461.82	7A
610	581339.90	4157820.51	EX W	467.00	8"W	465.50	7A
611	581367.46	4157855.48	EX ST LITE	467.00	8"W	465.50	7A
612	581367.72	4157855.82	8"W	465.50	10"SD	461.88	7A
613	581373.70	4157863.41	EX COMM	467.00	8"W	465.50	7A
614	581419.07	4157920.98	8"W	465.50	4"SD	462.93	7A
615	581431.65	4157937.11	EX G	465.50	8"W	467.00	7A
616	581407.02	4158146.70	8"W	466.50	8"SD	464.06	7A
617	581376.48	4158201.23	G	467.00	8"W	468.50	7A
618	581307.87	4157770.18	8"W	465.50	10"SD	461.01	7A
619	581352.04	4158186.14	PWR	468.00	G	466.40	7A
620	581410.78	4158140.00	PWR	469.00	8"W	466.50	7A
621	581409.92	4158141.53	8"W	466.50	6"SD	465.23	7A
622	581443.66	4158052.63	8"W	466.50	6"SD	463.77	7A

UTILITY CROSSING TABLE NOTES

1. ELEVATIONS OF PROPOSED NON-GRAVITY UTILITIES (W, F, FDC, G, ELEC, COMM, MECH, PLUMBING, OR OTHER NON-STORM OR SANITARY UTILITIES) ARE ASSUMED APPROXIMATE TOP OF PIPE/CONDUIT ELEVATIONS (UNLESS OTHERWISE NOTED) NEEDED TO ACHIEVE MINIMUM CLEARANCE.
2. ELEVATIONS OF PROPOSED SD AND SS ARE APPROXIMATE PROPOSED FLOWLINE ELEVATIONS.
3. EXISTING UTILITY ELEVATIONS ARE UNKNOWN. ELEVATION SHOWN FOR EXISTING UTILITY REPRESENTS ASSUMED TOP PIPE/CONDUIT ELEVATION UNLESS OTHERWISE INDICATED.
4. REFER TO CONSTRUCTION NOTES 7A, 7B, 7C, AND 7D FOR MINIMUM CLEARANCES.
5. REFER TO SHEET CU-101 FOR CROSSINGS BETWEEN PROPOSED SD AND EXISTING UTILITIES AND CROSSINGS BETWEEN PROPOSED SD AND ELEC, COMM, MECH, OR PLUMBING UTILITIES.
6. COORDINATE WITH AFFECTED TRADES TO ENSURE MINIMUM TRENCH DEPTHS ARE SATISFIED AND BEDDING AND BACKFILL INSTALLED BY OTHER TRADES IN NOT UNDERMINED.
7. BACKFILL USING FLOWABLE FILL PER SPECIFICATION SECTION 21 23 23.33 WHERE COMPACTION USING CRUSHED ROCK BACKFILL CANNOT BE ACHIEVED.

Revisions: | Date

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ARCHITECT/ENGINEERS:
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Drawing Title: SANITARY SEWER, WATER, AND NATURAL GAS DISTRIBUTION PLAN
Approved: Project Director
Project Title: SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD
Location: ROSEBURG, OREGON
Date: 30 APR 2012 | Checked: TLG | Drawn: JAH/CB
VA Project Number: 653-322
Building Number: 086
Sheet Number: CU-102
Office of Construction and Facilities Management
Department of Veterans Affairs

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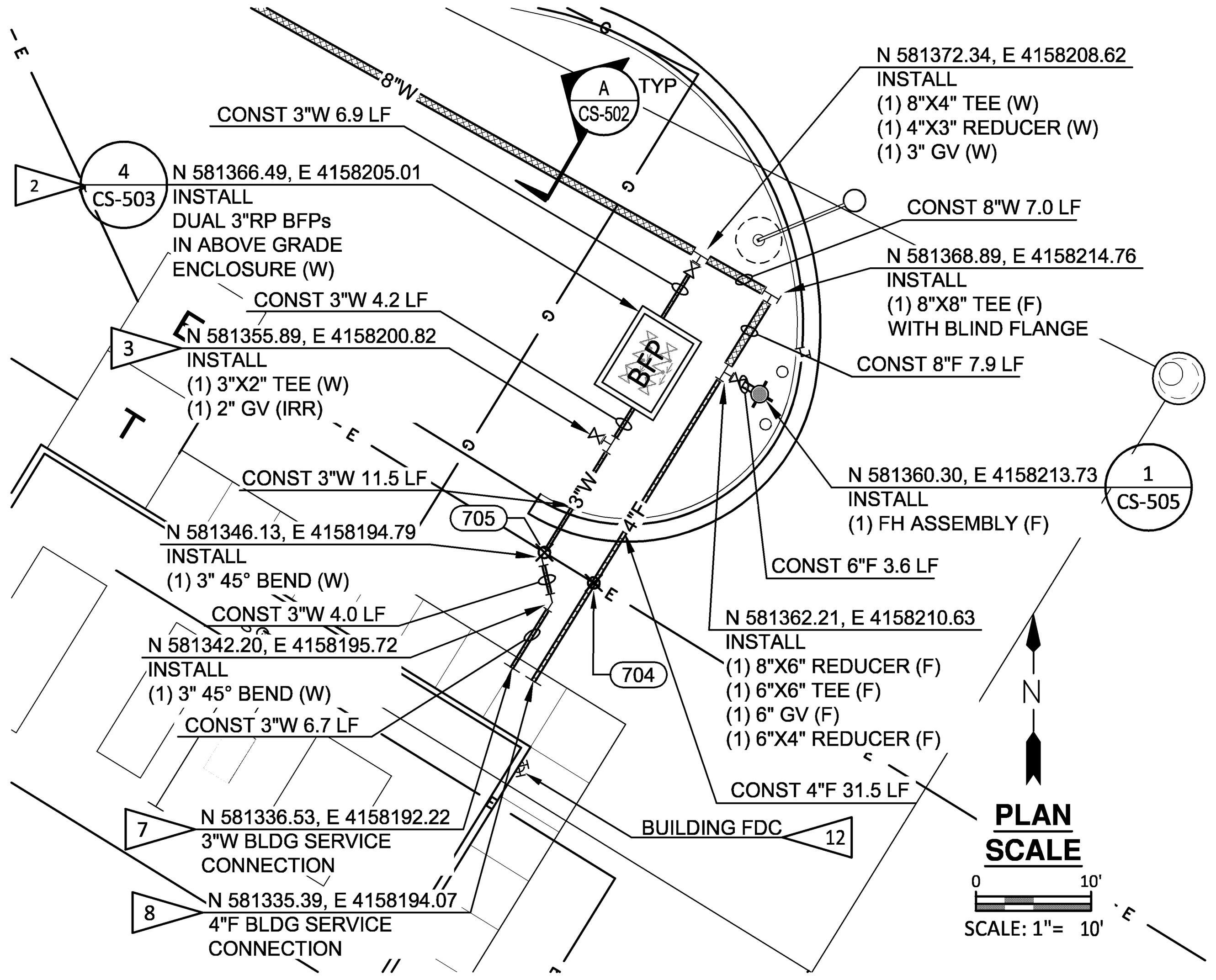
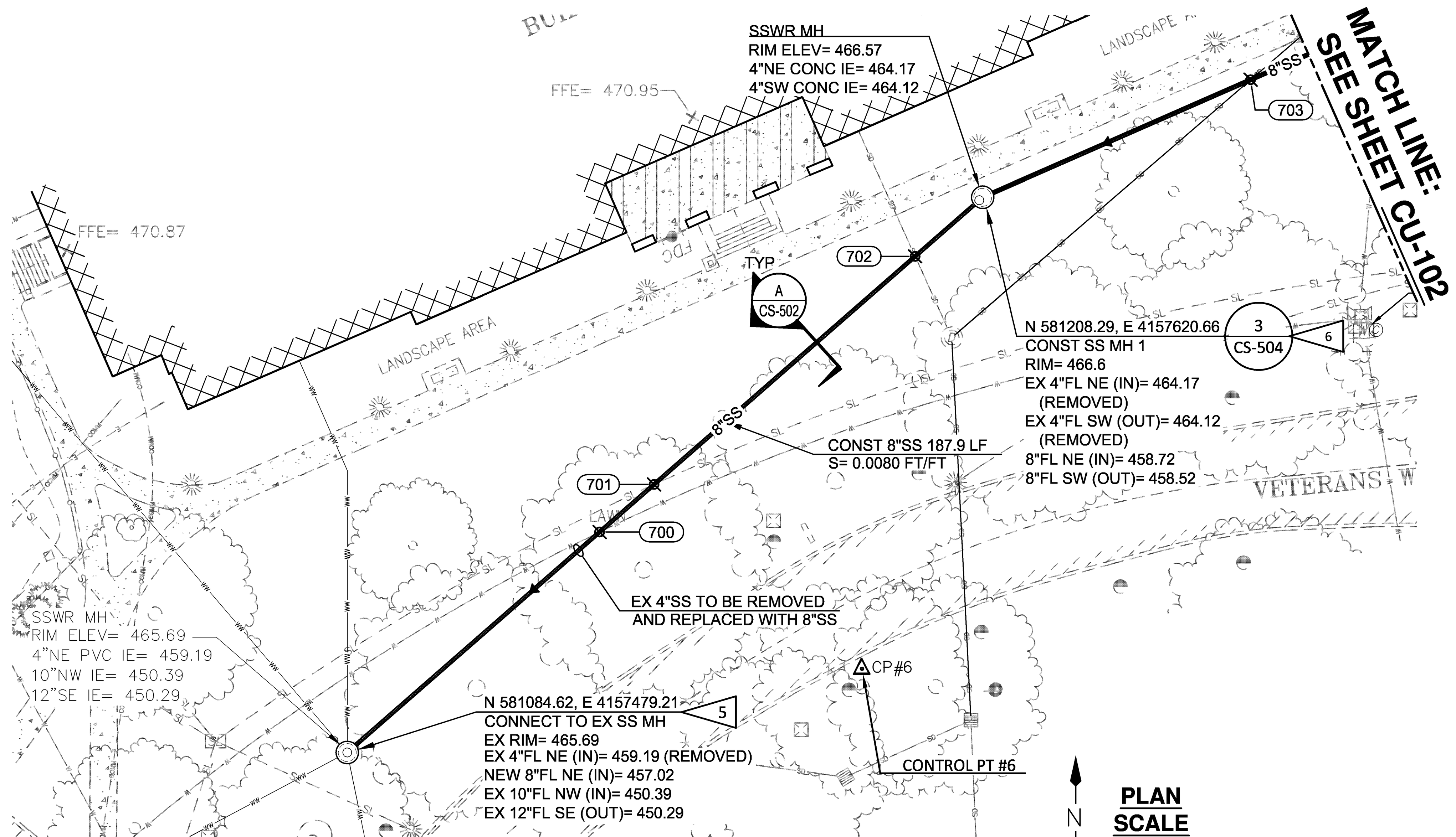


1 DOMESTIC AND FIRE PROTECTION WATER

SCALE: 1"= 10'



2 SANITARY SEWER CONNECTION

SCALE: 1"= 20'

SHEET NOTES

1. REFER TO SHEET CS-502 FOR CIVIL AND SURVEY LEGENDS AND GENERAL NOTES.
2. COORDINATES OF BFP VAULT ARE THE INTERSECTION OF THE WATER LINE AND THE EXTERIOR VAULT WALL ON THE INLET SIDE OF THE VAULT.

CONSTRUCTION NOTES

1. BUILDING DOMESTIC WATER CONNECTION. PLUG END OF PIPE AND MARK FOR REFERENCE. COORDINATE FINAL LOCATION WITH BUILDING PLUMBER. REFER TO MECHANICAL/PLUMBING DRAWINGS FOR CONTINUATION.
2. CONST DUAL REDUCED PRESSURE DOMESTIC WATER BFP IN AND ABOVE GRADE ENCLOSURE.
3. IRRIGATION CONNECTION. REFER TO LANDSCAPE ARCHITECT PLANS FOR CONTINUATION.
4. NEW NATURAL GAS SERVICE. CONTRACTOR TO PROVIDE TRENCHING AND BACKFILL AND COORDINATE WITH AVISTA UTILITIES FOR CONDUIT INSTALLATION BY AVISTA UTILITIES. CONDUIT TO BE SUPPLIED BY AVISTA UTILITIES. TRENCH MUST HAVE A MINIMUM WIDTH OF 12" AND A MINIMUM DEPTH OF 36", INCLUDING A MINIMUM 6" DEPTH SAND BEDDING ON BOTTOM OF TRENCH. TRENCH BOTTOM MUST BE FREE OF ROCK AND DEBRIS. SAND SHALL BE USED TO BACKFILL IN THE PIPE ZONE TO 6" ABOVE THE TOP OF THE CONDUIT. TRENCH BACKFILL ABOVE THE PIPE ZONE SHALL BE NATIVE MATERIAL IN LANDSCAPED AREAS AND ¾"-0" CRUSHED ROCK IN PAVEMENT AREAS. GAS SERVICE MUST MAINTAIN 12" MINIMUM HORIZONTAL AND VERTICAL SEPARATION FROM OTHER UTILITIES AND 36" HORIZONTAL SEPARATION FROM WATER LINES AND ELECTRIC LINES. CONTRACTOR MUST COMPLETE AND FAX IN GAS SERVICE APPLICATION TO AVISTA UTILITIES PRIOR TO SERVICE INSTALLATION (6 WEEKS MINIMUM). CONTRACTOR TO NOTIFY AVISTA UTILITIES AT LEAST 3 DAYS BEFORE METER INSTALLATION IS REQUIRED.
5. CONNECT TO EX SS MH. REMOVE EX 4" INLET (TO BE DEMOLISHED). CORE DRILL MANHOLE WALL AND INSTALL NEW 8"SS. GROUT AND SEAL WALL PENETRATIONS WATERTIGHT.
6. REMOVE AND REPLACE EX SS MH. REMOVE EX 4"SS PIPE CONNECTIONS ON LINES TO BE ABANDONED.
7. BUILDING DOMESTIC WATER CONNECTION. PLUG END OF PIPE AND MARK FOR REFERENCE. COORDINATE FINAL LOCATION WITH BUILDING PLUMBER. REFER TO MECHANICAL/PLUMBING DRAWINGS FOR CONTINUATION.
8. BUILDING FIRE PROTECTION CONNECTION. PLUG END OF PIPE AND MARK FOR REFERENCE. COORDINATE FINAL LOCATION WITH BUILDING PLUMBER. REFER TO MECHANICAL/PLUMBING DRAWINGS FOR CONTINUATION.
9. CONSTRUCT TRENCH DRAIN WITH LEVEL RIM AND PRE-SLOPED CHANNEL SECTIONS. CONSTRUCT CONCRETE ENCASEMENT PER DETAIL 7/CS-503. TRENCH DRAIN CHANNEL SLOPE= 0.0060 FT/FT. CONSTRUCT SIDE OUTLET AT BEGINNING POINT PER DETAIL 6/ CS-503.
10. CONST 4" CONNECTION FOR SUBDRAINAGE SYSTEM (RETAINING WALL DRAIN). PLUG END OF PIPE WITH MECHANICAL PLUG AND MARK FOR REFERENCE. REFER TO STRUCTURAL DRAWINGS FOR CONTINUATION. INSTALL BENDS AND FITTINGS AS NEEDED TO COMPLETE CONNECTION. INSTALL BACKWATER VALVE WITH TRAFFIC RATED VALVE BOX PER DETAIL 3/ CS-502.
11. CONST SLEEVED PIPE PENETRATION THROUGH RETAINING WALL PER STRUCTURAL DETAILS. PIPE SLEEVE TO BE 2" LARGER THAN PIPE DIAMETER. VERIFY FOOTING ELEVATIONS AND COORDINATE LAYOUT AND INSTALLATION WITH AFFECTED TRADES.
12. REFER TO SPECIFICATION SECTION 21 13 13 FOR WALL MOUNTED FDC AND CONTINUATION INTO BUILDING.

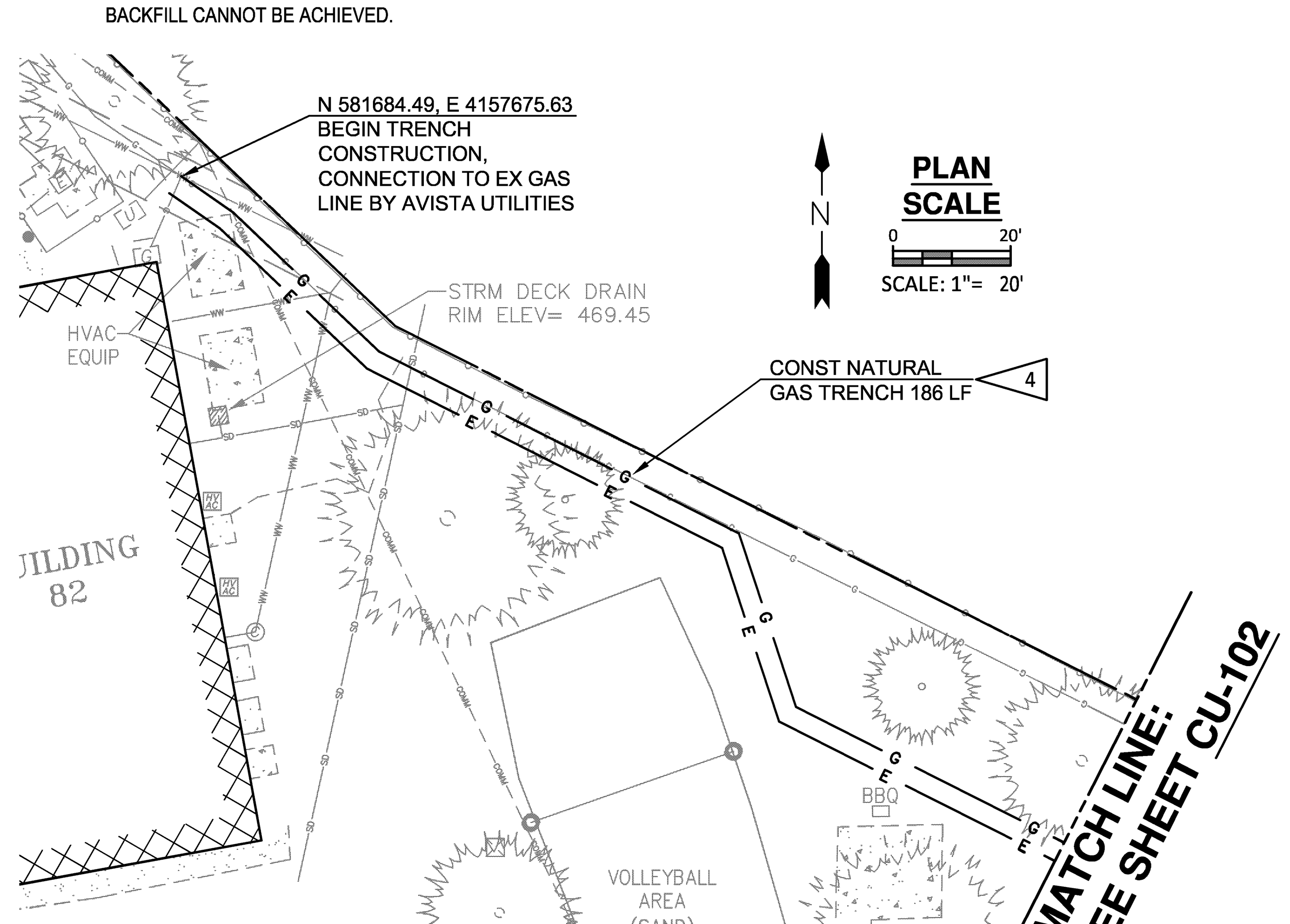
UTILITY CROSSING TABLE							
POINT	NORTHING	EASTING	UPPER UTILITY	ELEVATION	LOWER UTILITY	ELEVATION	CONST NOTE
700	581133.73	4157535.38		0.00		0.00	
701	581144.33	4157547.50		0.00		0.00	
702	581195.14	4157605.62		0.00		0.00	
703	581234.48	4157680.31		0.00		0.00	
704	581343.90	4158199.33		0.00		0.00	
705	581346.54	4158195.04		0.00		0.00	
706	581443.66	4158052.63		0.00		0.00	

CONSTRUCTION NOTES

12. UTILITY CROSSINGS:
   - A. CROSSING BETWEEN EXISTING UTILITY AND PROPOSED W, F, FDC , OR G LINE: POTHOLE TO DETERMINE ELEVATION OF EXISTING UTILITY. CONSTRUCT VERTICAL OFFSET OR ADJUST VERTICAL ALIGNMENT OF PROPOSED WATER OR FDC LINE AS NEEDED TO MAINTAIN MINIMUM 1' VERTICAL CLEARANCE. PROVIDE ADDITIONAL FITTINGS AS NEEDED TO COMPLETE VERTICAL ADJUSTMENTS. SUBMIT EXISTING FIELD-VERIFIED AND PROPOSED UTILITY ELEVATIONS TO ENGINEER PRIOR TO CONSTRUCTION.
   - B. CROSSING BETWEEN EXISTING UTILITY AND PROPOSED SANITARY SEWER: POTHOLE TO DETERMINE ELEVATION OF EXISTING UTILITY AND SUBMIT FINDINGS TO ENGINEER. NOTIFY ENGINEER IF MINIMUM ASSUMED 1' VERTICAL CLEARANCE CANNOT BE MAINTAINED.
   - C. CROSSING BETWEEN NEW STORM AND NEW SANITARY SEWER: PROVIDE MINIMUM CLEARANCE BASED ON ELEVATIONS SHOWN.
   - D. CROSSING BETWEEN TWO NEW UTILITIES: FOR CROSSINGS BETWEEN NEW SS AND OTHER NON-GRAVITY UTILITIES, ADJUST ELEVATION OF NON-GRAVITY UTILITY BY CONSTRUCTING VERTICAL OFFSET OR ADJUST VERTICAL ALIGNMENT OF PROPOSED NON-GRAVITY UTILITY MAINTAIN MINIMUM 1' VERTICAL CLEARANCE. FOR CROSSINGS BETWEEN TWO NEW NON-GRAVITY UTILITIES, ADJUST ELEVATION OF ONE OR BOTH UTILITIES BY CONSTRUCTING VERTICAL OFFSET OR ADJUSTING VERTICAL ALIGNMENT OF PROPOSED NON-GRAVITY UTILITY MAINTAIN MINIMUM 1' VERTICAL CLEARANCE.

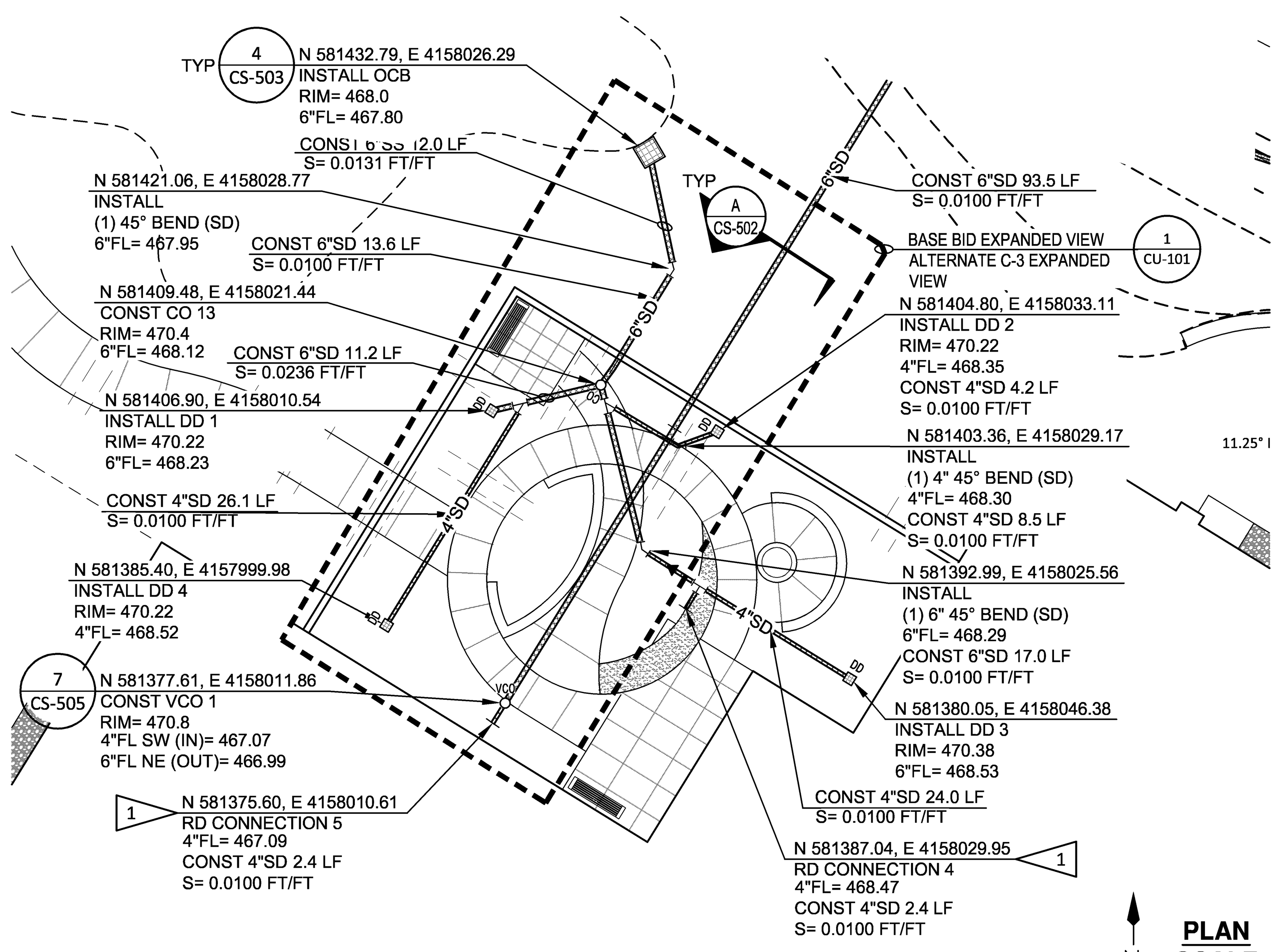
UTILITY CROSSING TABLE NOTES

1. ELEVATIONS OF PROPOSED NON-GRAVITY UTILITIES (W, F, FDC, G, ELEC, COMM, MECH, PLUMBING, OR OTHER NON-STORM OR SANITARY UTILITIES) ARE ASSUMED APPROXIMATE TOP OF PIPE/CONDUIT ELEVATIONS (UNLESS OTHERWISE NOTED) NEEDED TO ACHIEVE MINIMUM CLEARANCE.
2. ELEVATIONS OF PROPOSED SD AND SS ARE APPROXIMATE PROPOSED FLOWLINE ELEVATIONS.
3. EXISTING UTILITY ELEVATIONS ARE UNKNOWN. ELEVATION SHOWN FOR EXISTING UTILITY REPRESENTS ASSUMED TOP PIPE/CONDUIT ELEVATION UNLESS OTHERWISE INDICATED.
4. REFER TO CONSTRUCTION NOTES 13A, 13B, 13C, AND 13D FOR MINIMUM CLEARANCES.
5. REFER TO SHEET CU-101 FOR CROSSINGS BETWEEN PROPOSED SD AND EXISTING UTILITIES AND CROSSINGS BETWEEN PROPOSED SD AND ELEC, COMM, MECH, OR PLUMBING UTILITIES.
6. COORDINATE WITH AFFECTED TRADES TO ENSURE MINIMUM TRENCH DEPTHS ARE SATISFIED AND BEDDING AND BACKFILL INSTALLED BY OTHER TRADES IN NOT UNDERMINED.
7. BACKFILL USING FLOWABLE FILL PER SPECIFICATION SECTION 21 23 23.33 WHERE COMPACTION USING CRUSHED ROCK BACKFILL CANNOT BE ACHIEVED.



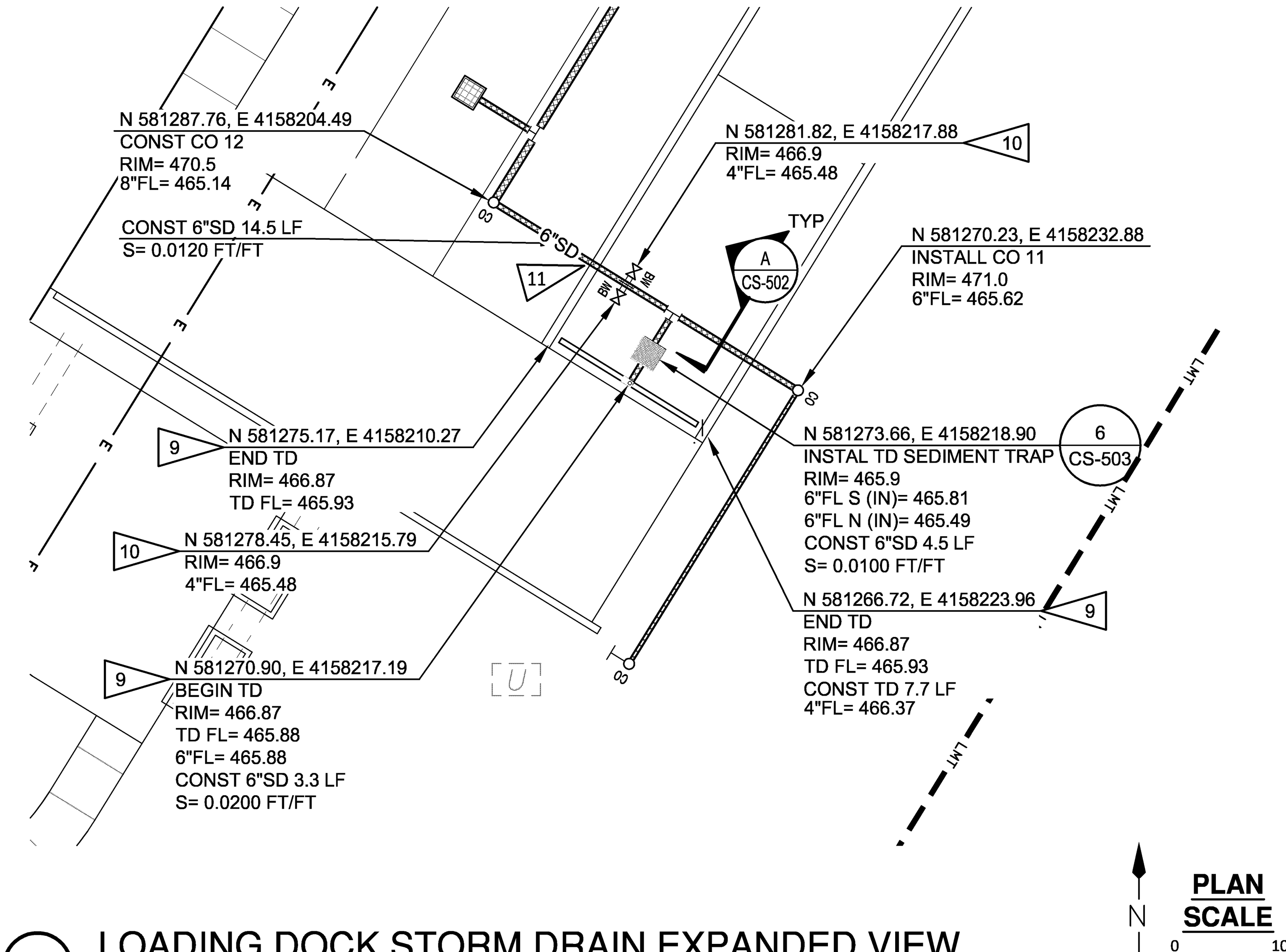
3 NATURAL GAS LINE EXTENSION

SCALE: 1"= 20'



4 BASE BID COURTYARD STORM DRAIN EXPANDED VIEW

SCALE: 1" = 10'



5 LOADING DOCK STORM DRAIN EXPANDED VIEW

SCALE: 1" = 10'

Revisions:	Date

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REGISTERED PROFESSIONAL ENGINEER 65619PE
DIGITAL SIGNATURE
OREGON
JAN. 10, 2008
TINA L. GUARD
EXPIRES 6/30/13

ARCHITECT/ENGINEERS:

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Drawing Title	Project Title	VA Project Number
SANITARY SEWER, WATER, AND NATURAL GAS DISTRIBUTION DETAILS	SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD	653-322
		Building Number: 086
Approved: Project Director	Location: ROSEBURG, OREGON	Sheet Number: CU-103
	Date: 30 APR 2012 / Checked: TLG / Drawn: JAH/CB	

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

SHEET NOTES

1. REFER TO CIVIL SHEET CU-101, CU-102, AND CU-103 FOR CIVIL UTILITIES DEMOLITION.
2. REFER TO CIVIL SHEET CS-502 FOR SURVEY LEGEND.
3. ADDITIONAL TREES AND SHRUBS, NOT SHOWN FOR REMOVAL IN PLANS, MAY BE REMOVED FROM AREAS WITHIN 15 FEET OF NEW CONSTRUCTION AND 7.5 FEET OF UTILITY LINES WHEN REMOVAL IS APPROVED IN ADVANCE BY OWNER'S REPRESENTATIVE AND RESIDENT ENGINEER.

KEYNOTE LEGEND

1. EXISTING TREE TO BE REMOVED.
2. REMOVE CURB TO LIMITS SHOWN.
3. REMOVE CURB ISLAND.
4. REMOVE FENCE ENCLOSURE.
5. REMOVE HORSESHOE PIT AND PUTTING CUP, PIN AND FLAG.
6. REMOVE GRAVEL AREA.
7. PROTECT EXISTING TREE, REFER TO TREE PROTECTION PLAN LS-100 FOR TREE PROTECTION REQUIREMENTS.
8. EXISTING LIGHT POLE TO BE REMOVED. REFER TO ELECTRICAL SHEET ES-001 FOR LIGHT POLE REMOVAL REQUIREMENTS.
9. EXISTING UTILITY TO REMAIN, PROTECT EXISTING UTILITY.
10. RELOCATE EXISTING PICNIC TABLES TO EXISTING CONCRETE PICNIC AREA 30 FEET NORTH OF EXISTING CONCRETE PICNIC AREA.
11. REMOVE EXISTING VEHICLE PAVEMENT STRIPING.

LEGEND

- FEATURE TO BE REMOVED
- CURB REMOVAL LIMITS
- LMT — LIMITS OF CONSTRUCTION
- REMOVE EXISTING PAVEMENT TO LIMITS SHOWN

Revisions:	Date

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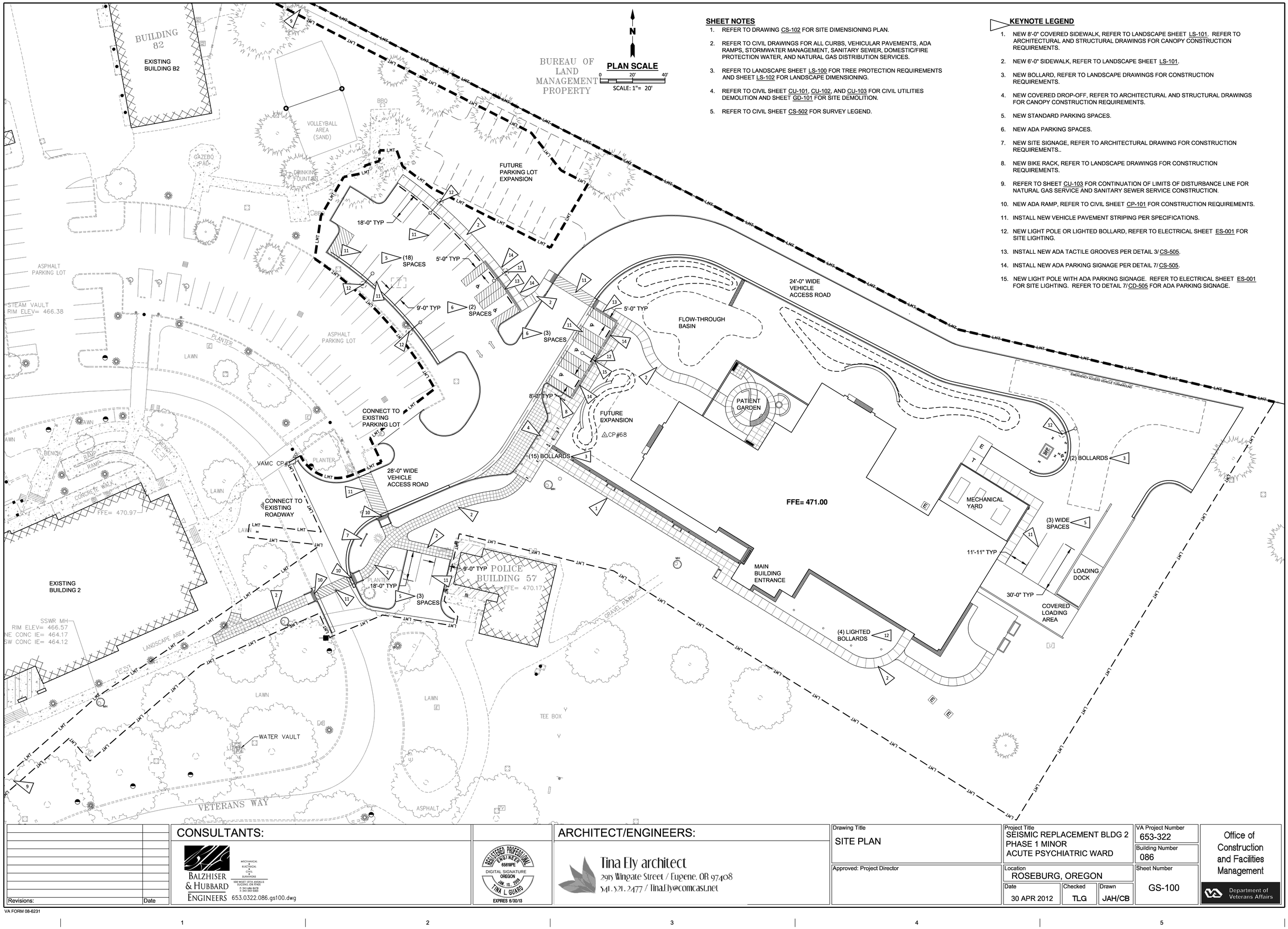
Drawing Title	Project Title	VA Project Number
SITE DEMOLITION PLAN	SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD	653-322
		Building Number: 086
Approved: Project Director	Location: ROSEBURG, OREGON	Sheet Number: GD-100
	Date: 30 APR 2012 / Checked: TLG / Drawn: CB	

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



SHEET NOTES

1. REFER TO DRAWING CS-102 FOR SITE DIMENSIONING PLAN.
2. REFER TO CIVIL DRAWINGS FOR ALL CURBS, VEHICULAR PAVEMENTS, ADA RAMPS, STORMWATER MANAGEMENT, SANITARY SEWER, DOMESTIC/FIRE PROTECTION WATER, AND NATURAL GAS DISTRIBUTION SERVICES.
3. REFER TO LANDSCAPE SHEET LS-100 FOR TREE PROTECTION REQUIREMENTS AND SHEET LS-102 FOR LANDSCAPE DIMENSIONING.
4. REFER TO CIVIL SHEET CU-101, CU-102, AND CU-103 FOR CIVIL UTILITIES DEMOLITION AND SHEET GD-101 FOR SITE DEMOLITION.
5. REFER TO CIVIL SHEET CS-502 FOR SURVEY LEGEND.

KEYNOTE LEGEND

1. NEW 8'-0" COVERED SIDEWALK, REFER TO LANDSCAPE SHEET LS-101. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CANOPY CONSTRUCTION REQUIREMENTS.
2. NEW 6'-0" SIDEWALK, REFER TO LANDSCAPE SHEET LS-101.
3. NEW BOLLARD, REFER TO LANDSCAPE DRAWINGS FOR CONSTRUCTION REQUIREMENTS.
4. NEW COVERED DROP-OFF, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CANOPY CONSTRUCTION REQUIREMENTS.
5. NEW STANDARD PARKING SPACES.
6. NEW ADA PARKING SPACES.
7. NEW SITE SIGNAGE, REFER TO ARCHITECTURAL DRAWING FOR CONSTRUCTION REQUIREMENTS..
8. NEW BIKE RACK, REFER TO LANDSCAPE DRAWINGS FOR CONSTRUCTION REQUIREMENTS.
9. REFER TO SHEET CU-103 FOR CONTINUATION OF LIMITS OF DISTURBANCE LINE FOR NATURAL GAS SERVICE AND SANITARY SEWER SERVICE CONSTRUCTION.
10. NEW ADA RAMP, REFER TO CIVIL SHEET CP-101 FOR CONSTRUCTION REQUIREMENTS.
11. INSTALL NEW VEHICLE PAVEMENT STRIPING PER SPECIFICATIONS.
12. NEW LIGHT POLE OR LIGHTED BOLLARD, REFER TO ELECTRICAL SHEET ES-001 FOR SITE LIGHTING.
13. INSTALL NEW ADA TACTILE GROOVES PER DETAIL 3/ CS-505.
14. INSTALL NEW ADA PARKING SIGNAGE PER DETAIL 7/ CS-505.
15. NEW LIGHT POLE WITH ADA PARKING SIGNAGE. REFER TO ELECTRICAL SHEET ES-001 FOR SITE LIGHTING. REFER TO DETAIL 7/ CD-505 FOR ADA PARKING SIGNAGE.

Revisions:	Date

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Drawing Title	SITE PLAN
Approved: Project Director	
Project Title	SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD
Location	ROSEBURG, OREGON
Date	30 APR 2012
Checked	TLG
Drawn	JAH/CB
VA Project Number	653-322
Building Number	086
Sheet Number	GS-100

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